

Technical Paper - Investment Additionality in the CDM - Appendix

Table A 1: Table of all the 222 CDM Projects Sampled in this Study

| Ref | Project Title | Status | CDM Project Type | Host country | Year of Registration | IRR of Project excl. CER (%) | IRR of Project incl. CER (%) | Difference in IRR (Δ IRR) | 1st period ktCO ₂ e/yr |
|-----|---|------------|-------------------|--------------------|----------------------|------------------------------|------------------------------|-----------------------------------|-----------------------------------|
| 8 | Brazil NovaGerar landfill gas to energy project (NM5) | Registered | Landfill gas | Brazil | 2004 | -0.01 [□] | 18.72 | 18.73 | 341 |
| 58 | Biomass in Rajasthan - 7.8 MW from mustard crop residues | Registered | Biomass energy | India | 2005 | 11.50 | 14.10 | 2.60 | 31 |
| 71 | Nanjing Tianjingwa Landfill Gas to Electricity Project | Registered | Landfill gas | China | 2005 | 6.61 | 26.58 | 19.97 | 246 |
| 75 | Clarion 12 MW (Gross) Renewable Sources Biomass Power Project | Registered | Biomass energy | India | 2005 | 13.00 | 15.00 | 2.00 | 26 |
| 80 | Shree Renuka Sugars (SRS) Bagasse Cogeneration | Registered | Biomass energy | India | 2005 | 9.95 | 17.29 | 7.34 | 22 |
| 87 | 20 MW Kabini Hydro Electric Power Project, SKPCL | Registered | Hydro | India | 2005 | 10.80 | 13.05 | 2.25 | 45 |
| 98 | 4.5 MW Maujhi Grid-connected SHP in Himachal Pradesh, India | Registered | Hydro | India | 2005 | 12.60 | 13.90 | 1.30 | 13 |
| 107 | Bii Nee Stipa wind farm project | Registered | Wind | Mexico | 2005 | 11.67 | 13.22 | 1.55 | 310 |
| 112 | Nagda Hills Wind Energy Project | Registered | Wind | India | 2006 | 9.80 | 13.50 | 3.70 | 11 |
| 113 | JCT Phagwara Small Scale Biomass Project | Registered | Biomass energy | India | 2005 | 8.20 | 18.80 | 10.60 | 28 |
| 127 | RSCL cogeneration expansion project | Registered | Biomass energy | India | 2006 | 11.90 | 14.50 | 2.60 | 80 |
| 130 | Antonio Moran Wind Power Plant Project in Patagonia Region | Registered | Wind | Argentina | 2005 | 6.10 | 7.63 | 1.53 | 27 |
| 137 | Brazil MARCA landfill gas to energy project | Registered | Landfill gas | Brazil | 2006 | 8.94 | 17.84 | 8.90 | 231 |
| 175 | El Guanillo wind farm in Dominican republic | Registered | Wind | Dominican Republic | 2006 | 11.30 | 13.00 | 1.70 | 124 |
| 176 | Meizhou Landfills Gas Recovery and Utilization as Energy | Registered | Landfill gas | China | 2006 | -0.01 | 40.00 | 40.01 | 287 |
| 184 | Electric Power Co-Generation by LDG Recovery – CST | Registered | EE own generation | Brazil | 2006 | 4.18 | 5.29 | 1.11 | 90 |
| 209 | Central Energética do Rio Pardo cogeneration project (CERPA) | Registered | Biomass energy | Brazil | 2006 | 15.00 | 19.00 | 4.00 | 16 |

□ There are six cases in which the exact value of the project IRR without CDM revenue was not given, but it was only stated that this IRR is negative and thus the project will not be economically viable for implementation. In these six cases, the IRR without CDM revenue is taken to be -0.01, for calculation purposes, and are highlighted in yellow.

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|-----|---|------------|----------------|---------|------|-------|-------|-------|-----|
| 211 | Usina Itamarati cogeneration project | Registered | Biomass energy | Brazil | 2006 | 15.15 | 17.84 | 2.69 | 8 |
| 228 | Koblitz Piratini Energia S.A. | Registered | Biomass energy | Brazil | 2006 | 11.00 | 42.00 | 31.00 | 173 |
| 229 | BT Geradora de Energia Elétrica S.A. - Ferradura Small Hydro Power Plant - Small Scale CDM Project | Registered | Hydro | Brazil | 2006 | 19.61 | 22.00 | 2.39 | 23 |
| 231 | CAMIL Itaquí Biomass Electricity Generation Project | Registered | Biomass energy | Brazil | 2006 | 13.78 | 38.04 | 24.26 | 57 |
| 238 | Jilin Taobei Huaneng 49,3 MW wind power project | Registered | Wind | China | 2006 | 6.84 | 8.23 | 1.39 | 94 |
| 239 | Wigton wind farm project (NM12) | Registered | Wind | Jamaica | 2006 | 10.22 | 12.04 | 1.82 | 53 |
| 256 | Jilin Tongyu Huaneng 100.05 MW Wind Power Project | Registered | Wind | China | 2006 | 6.88 | 9.35 | 2.47 | 253 |
| 276 | Bundled wind power project in Chitradurga (Karnataka in India) managed by Enercon (India) Ltd. | Registered | Wind | India | 2006 | 12.80 | 15.20 | 2.40 | 42 |
| 277 | 12.3 MW wind energy project in Tamil nadu, India | Registered | Wind | India | 2006 | 12.90 | 13.40 | 0.50 | 14 |
| 299 | Guangdong Nan'ao Huaneng 45.05 MW Wind Power Project | Registered | Wind | China | 2006 | 7.54 | 9.28 | 1.74 | 82 |
| 310 | Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India)Ltd | Registered | Wind | India | 2006 | 11.90 | 13.90 | 2.00 | 98 |
| 315 | 125 MW wind power project in Karnataka | Registered | Wind | India | 2006 | 7.36 | 10.75 | 3.39 | 253 |
| 316 | Ningxia Helanshan Wind-farm Project, Ningxia Autonomous Region | Registered | Wind | China | 2006 | 8.43 | 9.80 | 1.37 | 173 |
| 339 | Emission reduction through partial substitution of fossil fuel with alternative fuels like agricultural by-products, tyres and municipal solid waste (MSW) in the manufacturing of portland cement at Grasim Industries Limited-Cement division South (GIL-CDS) | Registered | Biomass energy | India | 2006 | 2.50 | 26.60 | 24.10 | 52 |
| 378 | Xiaogushan Hydropower Project | Registered | Hydro | China | 2006 | 7.20 | 9.30 | 2.10 | 319 |
| 388 | Fujian Zhangpu Liua0 30.6 MW Wind Power Project | Registered | Wind | China | 2006 | 6.61 | 8.32 | 1.71 | 52 |
| 398 | Ningxia Tianjing Shenzhou 30.6 MW Wind-farm Project | Registered | Wind | China | 2006 | 7.02 | 9.00 | 1.98 | 50 |
| 425 | Aguascalientes – EcoMethane Landfill Gas to Energy Project | Registered | Landfill gas | Mexico | 2006 | 3.20 | 25.80 | 22.60 | 163 |
| 447 | Generation of electricity from 6.25 MW capacity wind mills by Sun-n-Sand Hotels Pvt. Ltd at Soda Mada Rajasthan | Registered | Wind | India | 2006 | 12.45 | 14.81 | 2.36 | 9 |
| 471 | 56.25 MW bundled wind energy project in Tirunelveli and Coimbatore districts in Tamilnadu | Registered | Wind | India | 2006 | 10.10 | 12.10 | 2.00 | 47 |
| 481 | Generation of electricity from 2.5 MW capacity wind mills by Gujarat JHM Hotels Ltd. Ltd at Soda Mada, Rajasthan | Registered | Wind | India | 2006 | 10.57 | 12.93 | 2.36 | 3 |
| 483 | Jilin Changling Wind Farm Phase I Project | Registered | Wind | China | 2006 | 7.63 | 8.41 | 0.78 | 100 |
| 491 | Rudong County Wind Farm Project | Registered | Wind | China | 2006 | 6.93 | 9.44 | 2.51 | 199 |
| 498 | SIDPL Methane extraction and Power generation project | Registered | Biogas | India | 2006 | 9.00 | 18.00 | 9.00 | 46 |
| 505 | Methane recovery and power generation in a distillery plant | Registered | Biogas | India | 2006 | 6.37 | 19.70 | 13.33 | 45 |

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|-----|--|------------|-------------------|--------|------|-------|-------|-------|-----|
| 510 | Methane Avoidance by Municipal Solid Waste Processing in the city of Chandigarh, India | Registered | Landfill gas | India | 2006 | 3.04 | 13.08 | 10.04 | 40 |
| 517 | Bii Nee Stipa III | Registered | Wind | Mexico | 2007 | 12.70 | 14.12 | 1.42 | 291 |
| 519 | Passo do Meio, Salto Natal, Pedrinho I, Granada, Ponte and Salto Corgão Small Hydroelectric Power Plants - Brascan Energética S.A. | Registered | Hydro | Brazil | 2006 | 16.30 | 17.70 | 1.40 | 156 |
| 520 | Cachoeira Encoberta and Triunfo Small Hydroelectric Power Plants - Brascan Energética Minas Gerais S.A (BEMG) Project Activity | Registered | Hydro | Brazil | 2006 | 13.10 | 13.80 | 0.70 | 45 |
| 523 | Ecatepec – EcoMethane Landfill Gas to Energy Project | Registered | Landfill gas | Mexico | 2006 | -3.00 | 24.30 | 27.30 | 210 |
| 528 | Shri Bajrang WHR CDM Project | Registered | EE own generation | India | 2006 | 7.7 | 13.4 | 5.70 | 108 |
| 530 | ARAPUtanga Centrais ELétricas S. A. - ARAPUCEL - Small Hydroelectric Power Plants Project | Registered | Hydro | Brazil | 2006 | 18.42 | 20.52 | 2.10 | 107 |
| 531 | 11.25 MW wind power project in Dhule, Maharashtra | Registered | Wind | India | 2006 | 14.17 | 21.59 | 7.42 | 16 |
| 536 | The 30 MW Tuoli Wind-Farm Project in Urumqi, Xinjiang | Registered | Wind | China | 2006 | 6.80 | 9.38 | 2.58 | 94 |
| 537 | Liaoning Kangping 24.65MW Wind-farm Project | Registered | Wind | China | 2006 | 7.72 | 11.87 | 4.15 | 42 |
| 539 | Liaoning Zhangwu 24.65MW Wind-farm Project | Registered | Wind | China | 2006 | 6.11 | 10.16 | 4.05 | 35 |
| 543 | Nova Sinceridade Small Hydroelectric Power Plant - Brascan Energética Minas Gerais S.A. (BEMG) Project Activity | Registered | Hydro | Brazil | 2006 | 12.00 | 12.80 | 0.80 | 17 |
| 544 | Jilin Taobei Fuyu 49.5MW Wind Power Project | Registered | Wind | China | 2006 | 6.77 | 8.43 | 1.66 | 62 |
| 546 | SRGEL Non-Conventional Renewable Sources Biomass Power Project | Registered | Biomass energy | India | 2006 | 8.10 | 13.40 | 5.30 | 21 |
| 554 | Luertai 12.2 MW Hydropower Station Project, Lintan County, Gannan Autonomous Tibetan Prefecture, Gansu province | Registered | Hydro | China | 2006 | 5.29 | 7.52 | 2.23 | 41 |
| 555 | Kanfeng 15 MW Hydropower Station Project, Min County, Dingxi City Prefecture, Gansu province | Registered | Hydro | China | 2006 | 11.60 | 15.06 | 3.46 | 48 |
| 559 | Generation of electricity from 4 MW capacity wind mills by Sun-n-Sand Hotel group at Supa, Maharashtra | Registered | Wind | India | 2006 | 13.76 | 16.53 | 2.77 | 8 |
| 560 | Generation of electricity from 1.2 MW capacity wind mills by Sun-n-Sand Hotels Pvt. Ltd at Satara, Maharashtra | Registered | Wind | India | 2006 | 16.84 | 19.56 | 2.72 | 3 |
| 561 | Saihanba East 45.05 MW Windfarm Project | Registered | Wind | China | 2006 | 6.81 | 8.04 | 1.23 | 112 |
| 574 | Erlongshan Hydropower Project in Gansu Province | Registered | Hydro | China | 2006 | 5.81 | 8.20 | 2.39 | 135 |
| 576 | Saihanba North 45.05 MW Windfarm Project | Registered | Wind | China | 2006 | 6.92 | 8.11 | 1.19 | 112 |
| 589 | Inner Mongolia Huitengliang 49.5MW Wind Power Project, China | Registered | Wind | China | 2007 | 7.24 | 9.97 | 2.73 | 110 |
| 594 | 5 MW Renewable energy Project for grid, Gansu Province | Registered | Hydro | China | 2006 | 7.01 | 10.95 | 3.94 | 19 |
| 598 | RREPL – 14 MW Rice Husk Power Project | Registered | Biomass energy | India | 2006 | 8.48 | 14.89 | 6.41 | 55 |
| 599 | Jilin Taonan Wind Power Project | Registered | Wind | China | 2006 | 6.66 | 8.70 | 2.04 | 93 |

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|-----|---|------------|----------------|------------|------|-------|-------|-------|-----|
| 600 | 9.6 MW Xiaohe Small Hydropower Project | Registered | Hydro | China | 2006 | 7.24 | 10.89 | 3.65 | 42 |
| 603 | Osório Wind Power Plant Project | Registered | Wind | Brazil | 2006 | 7.31 | 7.76 | 0.45 | 148 |
| 627 | Aquarius Hydroelectric Project | Registered | Hydro | Brazil | 2006 | 21.30 | 22.60 | 1.30 | 13 |
| 663 | Santa Lúcia II Small Hydro Plant | Registered | Hydro | Brazil | 2006 | 15.40 | 18.50 | 3.10 | 23 |
| 667 | Braço Norte III Small Hydro Plant | Registered | Hydro | Brazil | 2006 | 15.00 | 16.60 | 1.60 | 40 |
| 668 | Braço Norte IV Small Hydro Plant | Registered | Hydro | Brazil | 2006 | 19.00 | 20.20 | 1.20 | 46 |
| 679 | Optimization of steam consumption at the evaporator | Registered | EE industry | India | 2007 | 14.50 | 20.00 | 5.50 | 52 |
| 689 | Inner Mongolia Chifeng Dongshan 49.3 MW Wind Power Project | Registered | Wind | China | 2006 | 7.14 | 9.60 | 2.46 | 126 |
| 693 | Votorantim's Hydropower Plant with existing reservoir "Pedra do Cavalo" CDM Project | Registered | Hydro | Brazil | 2006 | 12.95 | 13.95 | 1.00 | 59 |
| 725 | ISA Power 8 MW (Gross) Renewable Sources Biomass Power Project | Registered | Biomass energy | India | 2006 | 9.63 | 17.90 | 8.27 | 21 |
| 727 | Wind Electricity Generation at Erakandurai, Dist:Tirunavalli by M/s GHCL Ltd | Registered | Wind | India | 2006 | 9.72 | 12.58 | 2.86 | 8 |
| 728 | Eurus Wind Farm | Registered | Wind | Mexico | 2007 | 11.76 | 15.10 | 3.34 | 600 |
| 744 | Bundled wind power projects in Satara & Supa (Maharashtra in India) managed by TATA Motors Ltd. | Registered | Wind | India | 2007 | 14.08 | 15.00 | 0.92 | 32 |
| 773 | Ceran's Monte Claro Run-of-river Hydropower Plant | Registered | Hydro | Brazil | 2007 | 14.20 | 15.20 | 1.00 | 122 |
| 792 | "14.65 MW Wind Power Project" in Maharashtra by BF Utilities Ltd. | Registered | Wind | India | 2007 | 13.18 | 15.40 | 2.22 | 23 |
| 796 | 12 MW Bundled Wind Power Project in Tenkasi, Tamilnadu | Registered | Wind | India | 2007 | 13.88 | 16.17 | 2.29 | 23 |
| 800 | 4.2 MW Wind power project in Maharashtra, by Bharat Forge Limited | Registered | Wind | India | 2007 | 14.30 | 16.40 | 2.10 | 8 |
| 811 | Shandong Yucheng Xinyuan Biomass Heat & Power Plant Project ("Yucheng Biomass CHP") | Registered | Biomass energy | China | 2007 | 3.50 | 12.60 | 9.10 | 190 |
| 815 | Small-scale grid connected wind farm | Registered | Wind | Israel | 2007 | 8.13 | 10.55 | 2.42 | 39 |
| 819 | Zhongjieneng Suqian 2*12MW Biomass Direct Burning Power Plant Project | Registered | Biomass energy | China | 2007 | 2.05 | 8.71 | 6.66 | 123 |
| 820 | Zhongjieneng Jurong 2*12MW Biomass Direct Burning Power Plant Project | Registered | Biomass energy | China | 2007 | -1.90 | 8.60 | 10.50 | 124 |
| 823 | Huadian Inner Mongolia Huitengxile 100.25MW Wind Farm Project | Registered | Wind | China | 2007 | 6.35 | 8.22 | 1.87 | 264 |
| 824 | Tejona Wind Power Project (TWPP) | Registered | Wind | Costa Rica | 2007 | 8.80 | 12.00 | 3.20 | 13 |
| 825 | Henan Luyi 25MW Biomass Cogeneration Project | Registered | Biomass energy | China | 2007 | 5.16 | 9.49 | 4.33 | 186 |

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|-----|--|------------|--------------------|----------|------|-------|-------|-------|-----|
| 829 | Yichun Daqingshan Wind Power Project | Registered | Wind | China | 2007 | 6.85 | 9.20 | 2.35 | 38 |
| 830 | Rialma Companhia Energética I S/A. – Santa Edwiges I Small Hydro Power Plant – Small Scale CDM Project | Registered | Hydro | Brazil | 2007 | 16.38 | 17.46 | 1.08 | 13 |
| 831 | Rialma Companhia Energética S/A. – Santa Edwiges II Small Hydro Power Plant – Small Scale | Registered | Hydro | Brazil | 2007 | 14.89 | 16.11 | 1.22 | 17 |
| 833 | Jiangsu Rudong Huangang Dongling Wind Power Project | Registered | Wind | China | 2007 | 6.68 | 8.71 | 2.03 | 205 |
| 842 | Hebei Shangyi Manjing East Wind Farm Project | Registered | Wind | China | 2007 | 7.04 | 8.18 | 1.14 | 120 |
| 845 | Zhangbei Mijiagou 49.5 MW Windfarm Project | Registered | Wind | China | 2007 | 6.75 | 8.04 | 1.29 | 109 |
| 853 | Waste heat utilization for power generation at Ind Synergy Ltd, Kotmar, Raigarh in Chattisgarh | Registered | EE own generation | India | 2007 | 10.68 | 16.59 | 5.91 | 30 |
| 856 | Wuxi Taohuashan Landfill Gas to Electricity Project | Registered | Landfill gas | China | 2007 | 2.03 | 8.78 | 6.75 | 75 |
| 867 | Kim Loong Methane Recovery for Onsite Utilization Project at Kota Tinggi, Johor | Registered | Biogas | Malaysia | 2007 | 0.50 | 25.00 | 24.50 | 64 |
| 869 | Datang Jilin Shuangliao Wind Farm Project | Registered | Wind | China | 2007 | 7.66 | 10.19 | 2.53 | 104 |
| 870 | Inner Mongolia Huitengxile Jingneng 100MW Wind Power Project | Registered | Wind | China | 2007 | 6.46 | 8.87 | 2.41 | 261 |
| 873 | Guyuan 30.6MW Wind-farm Project | Registered | Wind | China | 2007 | 7.01 | 9.37 | 2.36 | 69 |
| 877 | Hebei Chengde Songshan Wind Farm Project | Registered | Wind | China | 2007 | 6.68 | 8.05 | 1.37 | 106 |
| 878 | Hebei Kangbao Wolongtushan 30 MW Wind Farm Project | Registered | Wind | China | 2007 | 7.47 | 9.72 | 2.25 | 59 |
| 883 | Liaoning Changtu Wind Farm Project | Registered | Wind | China | 2007 | 6.76 | 8.19 | 1.43 | 101 |
| 887 | Shenzhen Xiaping Landfill Gas Collection and Utilization Project | Registered | Landfill gas | China | 2007 | 1.25 | 29.96 | 28.71 | 472 |
| 888 | Aurá Landfill Gas Project | Registered | Landfill gas | Brazil | 2007 | -0.01 | 15.53 | 15.54 | 320 |
| 889 | RIMA Fuel Switch in Bocaiúva | Registered | Fossil fuel switch | Brazil | 2007 | -0.01 | 37.00 | 37.01 | 29 |
| 890 | Efficient use of industrial biomass residue for thermal energy generation | Registered | Biomass energy | India | 2007 | 8.99 | 26.30 | 17.31 | 43 |
| 891 | Ataia – Buriti Small Hydropower Plant | Registered | Hydro | Brazil | 2007 | 19.77 | 20.59 | 0.82 | 64 |
| 893 | Canabrava Landfill Gas Project | Registered | Landfill gas | Brazil | 2007 | -0.01 | 16.00 | 16.01 | 203 |
| 894 | Xinjiang Dabancheng Sanchang First Phase Wind Farm Project | Registered | Wind | China | 2007 | 4.80 | 9.76 | 4.96 | 81 |
| 897 | Jilin Tongyu Tuanjie wind project, 100.3 MW | Registered | Wind | China | 2007 | 6.74 | 10.52 | 3.78 | 255 |
| 905 | Jiangsu Qidong 91.5 MW Wind Power Project | Registered | Wind | China | 2007 | 5.34 | 8.16 | 2.82 | 200 |
| 906 | Heilongjiang Huafu Muling Wind Farm Project | Registered | Wind | China | 2007 | 7.45 | 10.07 | 2.62 | 77 |
| 910 | Ningxia Tianjing 50.25MW Wind-farm Project | Registered | Wind | China | 2007 | 6.99 | 9.62 | 2.63 | 92 |
| 916 | Methane recovery and utilisation project at TSH Kunak Oil Palm Mill, Sabah | Registered | Biogas | Malaysia | 2008 | 1.10 | 21.80 | 20.70 | 77 |
| 933 | Jinan Landfill Gas to Energy Project | Registered | Landfill gas | China | 2007 | -9.00 | 35.50 | 44.50 | 113 |

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|------|---|------------|----------------|----------|------|-------|-------|-------|-----|
| 959 | SESL 6 MW Municipal Solid Waste Based Power Project at Vijayawada & Guntur, Andhra Pradesh | Registered | Landfill gas | India | 2007 | 7.17 | 10.93 | 3.76 | 65 |
| 967 | 21 MW Bundled Wind Power Project in Vankuswade, Maharashtra | Registered | Wind | India | 2007 | 13.84 | 14.98 | 1.14 | 34 |
| 969 | Yichun Erduoyan Wind Power Project 28.05 MW | Registered | Wind | China | 2007 | 6.95 | 9.32 | 2.37 | 62 |
| 981 | Guohua Hulunbeier Xinbaerhu Youqi 49.5MW Wind Farm Project | Registered | Wind | China | 2007 | 6.29 | 9.04 | 2.75 | 125 |
| 984 | Golden Hope Composting Project - Lavang | Registered | Landfill gas | Malaysia | 2007 | 4.70 | 21.00 | 16.30 | 30 |
| 986 | Bundled 15 MW Wind Power Project in India | Registered | Wind | India | 2007 | 12.98 | 15.65 | 2.67 | 33 |
| 991 | Bundled Wind power project in Tamilnadu, India co-ordinated by the TamilNadu Spinning Mills Association (TASMA) | Registered | Wind | India | 2007 | 13.46 | 15.15 | 1.69 | 687 |
| 994 | Inner Mongolia Chifeng Saihanba West 30.6 MW Windfarm Project | Registered | Wind | China | 2007 | 7.00 | 8.18 | 1.18 | 83 |
| 995 | Fujian Dongshan Wujiaboy 30MW Wind Power Project | Registered | Wind | China | 2007 | 7.45 | 9.59 | 2.14 | 58 |
| 998 | NSL 27.65 MW Wind Power Project in Karnataka, India | Registered | Wind | India | 2007 | 15.30 | 17.80 | 2.50 | 57 |
| 1008 | Rongcheng Dongchudao Wind Farm | Registered | Wind | China | 2007 | 6.95 | 8.21 | 1.26 | 29 |
| 1009 | 3.7 MW Bundled Wind Power Project at Priyadarshini Polysacks Ltd. Dhulia District Maharashtra | Registered | Wind | India | 2007 | 12.18 | 16.14 | 3.96 | 7 |
| 1010 | Laizhou Diaolongzui Wind Farm | Registered | Wind | China | 2007 | 6.56 | 8.11 | 1.55 | 96 |
| 1015 | 25.70 MW Bundled Wind Power Project in Udumalpet, Tamilnadu | Registered | Wind | India | 2007 | 11.70 | 13.30 | 1.60 | 41 |
| 1017 | FDSPL-Wind Based Power Generation Project | Registered | Wind | India | 2007 | 12.60 | 15.50 | 2.90 | 24 |
| 1019 | Qixia Tangshanpeng Windfarm Project | Registered | Wind | China | 2007 | 7.17 | 9.23 | 2.06 | 38 |
| 1021 | 13.4 MW bundled wind power project in Chithradurga, Karnataka | Registered | Wind | India | 2007 | 13.53 | 14.71 | 1.18 | 21 |
| 1029 | 37.6 MW bundled wind power project in Nagercoil, Tamilnadu | Registered | Wind | India | 2007 | 12.52 | 14.03 | 1.51 | 58 |
| 1032 | Shandong Shanxian 1*25MW Biomass Power Plant Project | Registered | Biomass energy | China | 2007 | 5.60 | 11.00 | 5.40 | 127 |
| 1049 | 15 MW Grid Connected Wind Energy Project at Sankaneri Village in Tamil Nadu | Registered | Wind | India | 2007 | 11.57 | 12.96 | 1.39 | 37 |
| 1053 | 6.75 MW Small Scale Grid Connected "Wind Electricity Generation Project" by Tamil Nadu Newsprint and Papers Limited | Registered | Wind | India | 2007 | 12.53 | 14.75 | 2.22 | 14 |
| 1054 | Golden Hope Composting Project - Melalap | Registered | Landfill gas | Malaysia | 2007 | -4.70 | 7.40 | 12.10 | 3 |
| 1062 | Santa Terezinha – Tapejara Cogeneration Project. (Usina de Açúcar Santa Terezinha Ltda.) | Registered | Biomass energy | Brazil | 2007 | 12.63 | 15.41 | 2.78 | 43 |
| 1071 | Grid-connected electricity generation from renewable sources at Kadavakallu, Putluru Mandal | Registered | Wind | India | 2007 | 4.90 | 7.90 | 3.00 | 17 |
| 1081 | Gansu Datang Yumen 49 MW Wind Power Project | Registered | Wind | China | 2007 | 6.23 | 8.54 | 2.31 | 97 |
| 1082 | 7.85 MW Bundled Wind Power Project in Southern India | Registered | Wind | India | 2007 | 10.88 | 13.87 | 2.99 | 16 |
| 1087 | Composting of organic waste in Wuzhou | Registered | Landfill gas | China | 2007 | 4.74 | 8.37 | 3.63 | 42 |

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|------|--|------------|-----------------------|----------|------|-------|-------|-------|-----|
| 1090 | Shandong Changdao 27.2 MW Wind Power Project | Registered | Wind | China | 2008 | 6.59 | 8.73 | 2.14 | 59 |
| 1091 | Bandar Baru Seriting Biomass Project | Registered | Biomass energy | Malaysia | 2007 | 9.51 | 12.40 | 2.89 | 74 |
| 1107 | Golden Hope Composting Project - Kerdu | Registered | Landfill gas | Malaysia | 2007 | -8.90 | 41.00 | 49.90 | 20 |
| 1108 | Golden Hope Composting Project - Merotai | Registered | Landfill gas | Malaysia | 2007 | 4.00 | 19.00 | 15.00 | 30 |
| 1115 | 75MW wind power project in Maharashtra by Essel Mining Industries Limited | Registered | Wind | India | 2008 | 14.28 | 17.05 | 2.77 | 118 |
| 1118 | Jiangsu Dongtai 201 MW Wind Power project | Registered | Wind | China | 2007 | 6.64 | 8.44 | 1.80 | 399 |
| 1120 | Jiaozishan Landfill Gas Recovery and Utilization Project | Registered | Landfill gas | China | 2007 | 6.15 | 35.65 | 29.50 | 153 |
| 1121 | Bundled 3.0 MW Wind Energy Project in Tamilnadu | Registered | Wind | India | 2007 | 11.64 | 16.40 | 4.76 | 6 |
| 1123 | Ciudad Juarez Landfill Gas to Energy Project. | Registered | Landfill gas | Mexico | 2007 | 2.12 | 10.22 | 8.10 | 170 |
| 1124 | Shaanxi Province Ningshan County Small Hydropower Project (SNSHP) | Registered | Hydro | China | 2007 | 6.68 | 10.47 | 3.79 | 38 |
| 1127 | Hongyuan 10 MW Small Hydropower Project | Registered | Hydro | China | 2007 | 7.06 | 11.04 | 3.98 | 34 |
| 1128 | Shandong Weihai 69 MW Wind Power Project | Registered | Wind | China | 2008 | 6.72 | 8.66 | 1.94 | 136 |
| 1129 | Jilin Baicheng ChaganHot Wind Power Project | Registered | Wind | China | 2007 | 6.64 | 8.56 | 1.92 | 56 |
| 1136 | Gansu Zhouqu Shimenping 15 MW Hydropower Station Project | Registered | Hydro | China | 2007 | 7.21 | 13.22 | 6.01 | 67 |
| 1137 | 7.25 MW Wind Energy Project of Aruppukottai Sri Jayavilas Ltd, Tamilnadu, India. | Registered | Wind | India | 2007 | 8.3 | 9.4 | 1.10 | 13 |
| 1142 | Priyata Intercontinental Wind Power Project | Registered | Wind | India | 2008 | 13.86 | 17.43 | 3.57 | 7 |
| 1145 | 8.75MW Bundle Wind Power Project in Maharashtra | Registered | Wind | India | 2007 | 11.06 | 11.99 | 0.93 | 17 |
| 1147 | Yichun Shimaodingzi Wind Power Project 30.6MW | Registered | Wind | China | 2007 | 7.06 | 9.13 | 2.07 | 72 |
| 1153 | Methane recovery and utilisation project at United Plantations Berhad, Jendarata Palm Oil Mill | Registered | Biogas | Malaysia | 2007 | 4.70 | 18.40 | 13.70 | 20 |
| 1172 | Fujian Nanridao 16.15MW Wind Power Project | Registered | Wind | China | 2007 | 6.87 | 9.08 | 2.21 | 38 |
| 1177 | Fujian Pingtan Changjiangao 100 MW Wind Power Project | Registered | Wind | China | 2007 | 6.08 | 8.41 | 2.33 | 233 |
| 1190 | Pingwu Renjiaba 12.6 MW Small Hydropower Project | Registered | Hydro | China | 2007 | 5.61 | 10.36 | 4.75 | 73 |
| 1212 | Shaanxi Province Xunyang County Guihua Small Hydropower Project (SXGSHP) | Registered | Hydro | China | 2007 | 8.66 | 12.02 | 3.36 | 36 |
| 1213 | Wuhuzha 12 MW Small Hydropower Project | Registered | Hydro | China | 2007 | 7.05 | 11.50 | 4.45 | 38 |
| 1214 | Mensilin Holdings Biomass Energy Plant Project | Registered | Biomass energy | Malaysia | 2007 | 7.49 | 12.30 | 4.81 | 48 |
| 1227 | Yuyao Electricity Generation Project using Natural Gas | Registered | Fossil fuel switch | China | 2007 | 6.69 | 10.24 | 3.55 | 805 |
| 1230 | Shanxi Liulin Coal Mine Methane Utilization Project | Registered | Coal bed/mine methane | China | 2007 | 6.17 | 43.80 | 37.63 | 318 |

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|------|---|------------|--------------------|--------|------|-------|-------|-------|------|
| 1231 | Shanmugou Small Hydropower project | Registered | Hydro | China | 2007 | 5.94 | 10.74 | 4.80 | 46 |
| 1232 | UHE Mascarenhas Power Upgrading project | Registered | Hydro | Brazil | 2008 | 11.52 | 13.01 | 1.49 | 50 |
| 1236 | Eco Friendly Electricity Export to Grid | Registered | Wind | India | 2007 | 8.24 | 10.42 | 2.18 | 19 |
| 1240 | Hasars Landfill Gas Project | Registered | Landfill gas | Mexico | 2007 | 5.73 | 45.36 | 39.63 | 138 |
| 1242 | Tultitlan - EcoMethane landfill gas to energy project | Registered | Landfill gas | Mexico | 2007 | -1.30 | 16.00 | 17.30 | 42 |
| 1244 | The Wulabo 30 MW Wind-Farm Project in Urumqi, Xinjiang of China | Registered | Wind | China | 2007 | 5.95 | 8.61 | 2.66 | 83 |
| 1254 | The TIMARPUR-OKHLA Waste Management Company Pvt Ltd's (TOWMCL) intergrated waste to energy project in Delhi | Registered | Biogas | India | 2007 | 9.60 | 13.10 | 3.50 | 263 |
| 1261 | Guohua Inner Mongolia Huitengliang Wind Farm Project | Registered | Wind | China | 2007 | 6.41 | 9.12 | 2.71 | 127 |
| 1263 | Shandong Wudi Biomass Generation Project | Registered | Biomass energy | China | 2007 | 6.36 | 9.88 | 3.52 | 113 |
| 1269 | Ningxia Yinyi 49.50MW Wind-farm Project, China | Registered | Wind | China | 2007 | 7.09 | 9.45 | 2.36 | 98 |
| 1273 | Someshwara small hydropower project in Karnataka | Registered | Hydro | India | 2008 | 14.63 | 18.19 | 3.56 | 70 |
| 1293 | Heilongjiang Tangyuan Biomass Cogeneration Project | Registered | Biomass energy | China | 2007 | 4.99 | 10.45 | 5.46 | 184 |
| 1301 | Methane Recovery and Utilization CDM Project at Muyuan Swine Farm in Henan Province | Registered | Biogas | China | 2007 | 6.17 | 32.59 | 26.42 | 110 |
| 1304 | Henan Zhengzhou Grid Connected Natural Gas Combined Cycle Power Plant | Registered | Fossil fuel switch | China | 2008 | 6.26 | 9.11 | 2.85 | 692 |
| 1306 | 4 MW Bundled Grid Connected Wind Power Project in Tamilnadu, India. | Registered | Wind | India | 2007 | 8.26 | 9.61 | 1.35 | 8 |
| 1307 | Durango - EcoMethane landfill to energy project | Registered | Landfill gas | Mexico | 2008 | -4.50 | 17.40 | 21.90 | 83 |
| 1308 | 3 MW Wind Power Project at Chikkasiddavanahalli village, Chitradurga district, Karnataka | Registered | Wind | India | 2007 | 9.03 | 13.88 | 4.85 | 5 |
| 1310 | Guohua Qiqihaer Fuyu 1st Stage Wind Farm Project, China | Registered | Wind | China | 2007 | 6.35 | 10.09 | 3.74 | 112 |
| 1317 | Paraíso Small Hydropower Plant – PCH Paraíso | Registered | Hydro | Brazil | 2008 | 15.77 | 16.72 | 0.95 | 30 |
| 1318 | Fujian Zhangpu Liuaio 45MW Wind Power Project | Registered | Wind | China | 2008 | 6.33 | 8.62 | 2.29 | 84 |
| 1320 | Beijing Taiyanggong CCGT Trigeneration Project | Registered | Fossil fuel switch | China | 2008 | 6.01 | 9.77 | 3.76 | 1516 |
| 1326 | Jorethang Loop Hydroelectric Project | Registered | Hydro | India | 2008 | 9.62 | 12.92 | 3.30 | 466 |
| 1327 | Inner Mongolia Zhuozi 40MW Wind Power Project | Registered | Wind | China | 2008 | 6.44 | 8.85 | 2.41 | 92 |
| 1338 | Lufeng Jiadong First Phase Wind Farm Project | Registered | Wind | China | 2008 | 6.22 | 8.09 | 1.87 | 43 |
| 1341 | 7.2 MW Wind Project at Chitradurga, Karnataka | Registered | Wind | India | 2008 | 8.60 | 10.6 | 2.00 | 14 |
| 1342 | Sao Joao Hydro Power plant | Registered | Hydro | Brazil | 2008 | 10.71 | 13.51 | 2.80 | 32 |
| 1343 | Xiaoshan Power Plant's NG Power Generation Project of Zhejiang Southeast Electric Power Co., Ltd. | Registered | Fossil fuel switch | China | 2008 | 6.34 | 10.32 | 3.98 | 937 |

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|------|--|------------|--------------------|-----------|------|-------|--------|--------|-----|
| 1344 | Zhejiang Provincial Energy Group Zhenhai Natural Gas Power Generation Co., Ltd.'s NG Power Generation Project | Registered | Fossil fuel switch | China | 2008 | 6.53 | 9.85 | 3.32 | 937 |
| 1345 | 24.75 MW Ranganathaswamy Mini Hydel Project, Karnataka | Registered | Hydro | India | 2008 | 13.90 | 16.77 | 2.87 | 62 |
| 1359 | Inno-Malsa - Palm Oil Mill Waste Recycle Scheme | Registered | Landfill gas | Malaysia | 2008 | -3.60 | 27.00 | 30.60 | 104 |
| 1363 | 5 MW renewable energy project for a grid system" at Rohru Tehsil, Shimla District in Himachal | Registered | Hydro | India | 2008 | 12.25 | 14.42 | 2.17 | 14 |
| 1373 | Beijing No.3 Thermal Power Plant Gas-Steam Combined Cycle Project Using Natural Gas | Registered | Fossil fuel switch | China | 2008 | 2.49 | 8.36 | 5.87 | 624 |
| 1375 | Shandong Gaotang 30MW Biomass Power Generation Project | Registered | Biomass energy | China | 2008 | 4.46 | 9.93 | 5.47 | 141 |
| 1429 | Fuling Waste Heat Recovery for power generation project | Registered | EE own generation | China | 2008 | 7.98 | 14.35 | 6.37 | 215 |
| 1446 | Liaoning Xingcheng Haibin Wind Farm Project | Registered | Wind | China | 2008 | 6.29 | 8.41 | 2.12 | 122 |
| 1456 | 5 MW Wind Power Project of Alembic Limited at Bhavnagar, India | Registered | Wind | India | 2008 | 14.80 | 16.39 | 1.59 | 9 |
| 1480 | Xinjiang Xiaocaohu Wind Power Project | Registered | Wind | China | 2008 | 6.63 | 9.44 | 2.81 | 109 |
| 1482 | Conversion of existing open cycle gas turbine to combined cycle at the Central Termica Patagonia power station, Comodoro Rivadavia | Registered | EE supply side | Argentina | 2008 | -2.50 | 8.64 | 11.14 | 148 |
| 1488 | Inner Mongolia Sunjiaying 50.25MW Wind Power Project | Registered | Wind | China | 2008 | 6.97 | 9.55 | 2.58 | 139 |
| 1501 | Liaoning Huanren Niumaodashan Wind Power Project | Registered | Wind | China | 2008 | 6.67 | 9.45 | 2.78 | 62 |
| 1512 | 1.5MW Deogad hydroelectric project in Maharashtra district Sindudurg, Inida by M/s Gadre Marine Export | Registered | Hydro | India | 2008 | 15.36 | 16.78 | 1.42 | 4 |
| 1514 | "3MW Iruttukanam Small Hydro Electric Project, Kerala, India" at Viyyat Power Private Limited in Taluka Devikulam, District Idukki, Kerala by M/s Viyyat Power Private Limited | Registered | Hydro | India | 2008 | 14.28 | 16.24 | 1.96 | 10 |
| 1542 | Generation of electricity from 9.6 MW capacity wind mills by Sun-Sand Hotels Pvt. Ltd. at Bhambarwadi, Maharashtra | Registered | Wind | India | 2008 | 9.92 | 11.65 | 1.73 | 15 |
| 1550 | Generation of electricity from 12.8 MW capacity wind mills by Avinash Bhosale group at Bhambarwadi, Maharashtra | Registered | Wind | India | 2008 | 9.19 | 10.75 | 1.56 | 20 |
| 1575 | Kadamane Mini Hydel Scheme-1 (KMHS-1) | Registered | Hydro | India | 2008 | 7.00 | 16.80 | 9.80 | 32 |
| 1615 | Wind power project by GFL in Gudhepanchgani | Registered | Wind | India | 2008 | 13.17 | 16.36 | 3.19 | 52 |
| 1616 | Methane Recovery in Wastewater Treatment, Project AMA07-W-01, Perak | Registered | Biogas | Malaysia | 2008 | 0.00 | 22.00 | 22.00 | 57 |
| 1636 | Alto-Tietê landfill gas capture project | Registered | Landfill gas | Brazil | 2008 | -0.01 | 119.20 | 119.21 | 481 |
| 1664 | Mianyang Landfill Gas Utilisation Project | Registered | Landfill gas | China | 2008 | -1.80 | 84.00 | 85.80 | 94 |

Table A2 : Table of results of CDM project types, generated from the Kruskal-Wallis ANOVA on Ranks test

| CDM Project type (H = 113.8) | Sample Size | Median ΔIRR | Mean ΔIRR | Standard Deviation | 25th Percentile | 75th Percentile | Range of 95% Confidence Interval of Mean |
|---|--------------------|--------------------------------------|------------------------------------|---------------------------|-----------------------------------|-----------------------------------|---|
| Landfill gas | 26 | 19.4 | 27.4 | 25.8 | 12.1 | 30.6 | 10.4 |
| Biogas | 8 | 17.2 | 16.6 | 8.0 | 11.2 | 23.3 | 6.7 |
| Biomass energy | 25 | 5.5 | 8.4 | 7.7 | 3.4 | 9.5 | 3.2 |
| Fossil fuel switch | 7 | 3.8 | 8.6 | 12.6 | 3.4 | 5.4 | 11.6 |
| Hydro | 39 | 2.2 | 2.6 | 1.8 | 1.3 | 3.5 | 0.6 |
| Wind | 110 | 2.2 | 2.3 | 1.0 | 1.6 | 2.7 | 0.2 |

Table A3 : Table of results of CDM project host countries, generated from the Kruskal-Wallis ANOVA on Ranks test

| CDM Project Host Country (H = 26.1) | Sample Size | Median ΔIRR | Mean ΔIRR | Standard Deviation | 25th Percentile | 75th Percentile | Range of 95% Confidence Interval of Mean |
|--|--------------------|--------------------------------------|------------------------------------|---------------------------|-----------------------------------|-----------------------------------|---|
| Mexico | 9 | 17.3 | 15.9 | 13.3 | 2.9 | 23.8 | 10.2 |
| Malaysia | 11 | 16.3 | 19.3 | 13.0 | 12.5 | 23.9 | 8.7 |
| India | 69 | 2.7 | 4.0 | 3.9 | 2.0 | 4.2 | 0.9 |
| China | 97 | 2.6 | 6.0 | 11.5 | 2.1 | 4.1 | 2.3 |
| Brazil | 30 | 1.9 | 10.2 | 22.7 | 1.1 | 8.9 | 8.5 |