**太阳能工农业热利用案例征集调查表**

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| 请注意带有下拉选项列表的单元格（如右边所示）Please note the marked cells as drop down lists | **选择一项。****<Please choose…>** |

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| **1. 基本信息GENERAL INFORMATION** |
| **项目名称Name of project** |  |
| **太阳能加热系统温度等级****Temperature Level of Solar Heating System (SHS)** | **选择一项。** |
| **项目特点或创新点****Special characteristic(s) of this project:** |  |

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| **2. 项目基本信息GENERAL PROJECT INFORMATION** |
| **运行时间Start of Operation** |  |
| **国家Country of installation** |  |
| **具体地址Address** |  |
| **行业领域Industry Sector** | **选择一项。** |  |
| **行业地位Industry position** |  |
| **太阳能用途(包括温度等级)****Solar Energy used for (including Temperature Level)** | **选择一项。** |  |
| **规模Scale** |  |
| **太阳能加热系统运营单位****Owner and/or operator of SHS** |  |
| **太阳能加热系统施工单位****SHS Engineering Company** |  |
| **过程集成施工单位****Process Integration Engineering Company** |  |
| **单位联系人****Contact Person at one of these companies** |  |
| **附加信息Additional Information via** |  |

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| **3.太阳能加热系统特征SOLAR HEATING SYSTEM CHARACTERISTICS** |
| **太阳能加热系统SOLAR HEATING SYSTEM** | **备注REMARKS** |
| **集热器类型Installed Collector Type** | **选择一项。** |  |
| **集热器安装面积Installed Collector Area [m²]** |  | **选择一项。** |
| **安装类型Type of installation** | **选择一项。** |  |
| **太阳能传热流体****Heat Transfer Fluid within Solar Loop** | **选择一项。** |  |
| **太阳能储存Solar Energy Storage** | **选择一项。** |  |
| **储热体积Storage Volume[m³]：** |  |  |
| **当地气象条件Local meteorological condition** |  |
| **集热器表面辐照****Irradiation on collector surface[kWh/(m²\*a)]** |  | **选择一项。** |
| GHI: 整体水平面辐照 H\_t: 集热器倾斜表面辐照H\_b: 波束辐照(单轴追踪) DNI: 直射太阳辐照 (双轴追踪) |
| **太阳能加热系统运行时集热器典型温度Typical collector temperature during operation of SHS[°C]** | **T进口** |  |
| **T出口** |  |
| **防冻、防阻塞方法****Method for stagnation or freezing prevention** |  |
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| **传统辅助加热CONVENTIONAL HEAT SUPPLY** | **备注REMARKS** |
| **传统加热供应****Conventional Heat Supply** | **选择一项** |  |
| **燃料Fuel** | **选择一项** |  |
| **燃料成本Fuel cost** |  |
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| **太阳能热量的集成INTEGRATION OF SOLAR HEAT** | **备注REMARKS** |
| **工艺流程Technological process** |  |
| **用热环节Heat using link** |  |
| **太阳能热集成等级****Level of Solar Heat Integration** | **选择一项** |  |
| **太阳能热集成点****Point of Solar Heat Integration** | **选择一项** |  |
| **用来存储太阳能热量设备的简要描述Short description of heat sink solar heat is used for** |  |
| **周负荷情况****Weekly load profile of heat sink** | **选择一项** |  |
| **年负荷情况****Yearly load profile of heat sink** | **选择一项** |  |
| **太阳能热量是如何集成的?****How and where is solar heat integrated?** |  |
| **太阳能热量使用温度范围****At which temperature (range) solar heat has to be delivered (Tset, Tmin, Tmax)** | **Tset** |  | **Tmin** |  | **Tmax** |  |
| **太阳能热集成使用的是标准部件或定制产品Standard components or custom products use for solar heat integration** |  |

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| **4. 经济性指标ECONOMIC PARAMETERS** |
| **项目实现的方式Realization of project via** | **选择一项** |  |
| **总投资费用(不包括增值税)****Total investment(excl. VAT)/(元/CNY)** | **A** |  |
| **规划工程费用（元或%）Planning/Engineering costs(CNY or %)** | **选择一项** |  |
| **集热器费用（包括部件、安装等）（元或%）****Collector costs (Incl. substructure, installation, etc.) (CNY or %)** | **选择一项** |  |
| **系统配套费用（包括管道、泵、储热等）（元或%）****Balance of System costs (Incl. storage, piping, pumps, etc.) (CNY or %)** | **选择一项** |  |
| **集成费用（包括材料、安装等）（元或%）****Integration costs(Incl. material, installation, etc.) (CNY or %)** | **选择一项** |  |
| **是否可利用补贴Subsidies utilized?** | **选择一项** | **选择补贴类型(Type of subsidy)** |
| **补贴的比例或数量（元或%）Rate/amount of subsidies(CNY or %)** | **B** | **选择一项** |  |
| **补贴的更多信息Additional information on utilized subsidies:** |  |
| **设计太阳能加热系统寿命Calculated solar thermal system life time in years** | **C** |  |
| **静态太阳能产热成本Static solar heat generation costs**  | **(A-B)/(C\*D)** |  |
| **计划/监测的项目太阳能年供热量****Projected/monitored annual solar heat delivered in MWh/a** | **D** | **选择一项** |  |
| **太阳能保证率Solar fraction** |  |
| **产值利润Profit for output value（元/CNY）** |  |
| **常规能源替代量(吨标煤/年)****Conventional energy alternative(ton of standard coal/year)** |  |
| **节能减排效益（CO2、SO2等）****Benefits of energy saving and emission redunction** |  |
| **静态投资回收期Static payback time** |  |

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| **5. 项目经验LESSONS LEARNED** |
| **项目初始启动负责单位****Who was responsible for initial start-up of the project** |  |
| **投资太阳能加热系统的原因****What was the main reason(s) for investment in SHS?** |  |
| **太阳能加热系统的集成点是如何确定的（基于哪个参数或方法）****How was the integration point of solar heat determined?****(based on which parameters / methodology)**  |  |
| **在设计、投标、采购管理等方面学到最重要的经验是什么?****What are the most important lessons learned regarding Designing/Tendering/Procurement?** |  |
| **在建设和调试中遇到最主要的挑战是什么?****What have been the main challenges during Construction and Commissioning?** |  |
| **运行过程中出现哪些困难?****Which problems/challenges occurred during operation?** |  |
| **运行效果是否达到期望值****Does the performance meet your expectations?** |  |
| **根据你的经验，对未来此类项目有何建议?****Due to your experience, which recommendations would you give for future projects?** |  |

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| **6. 本调查表填写者信息THIS QUESTIONNAIRE WAS ANSWERED BY** |
| **名字Name:** |  |
| **公司Company：** |  |
| **邮箱Email:** |  |
| **电话Phone:** |  |

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| **7. 附件ATTACHMENTS** |
| **为更好的呈现您的项目，请按要求添加以下附件****The following attachments are required to list your project within the Best Practice section** |
| **必选Must** | **是否附加Attached** | **注释Comment** |
| **太阳能加热系统，辅助能源系统，以及两者结合的集成系统图Hydraulic scheme incl. SHS, integration point and conventional heat supply if necessary** | **是(Yes)** |  |
| **太阳能加热系统以及集成点的实景图（至少3张）****Picture(s) of SHS and integration point（at least 3 pictures）** | **是(Yes)** |  |
| **项目实景图（至少3张）****Picture(s) of project（at least 3 pictures）** | **是(Yes)** |  |
| **可选Optional** |
| **运行中的太阳能集热器数据表****Data sheet(s) of the solar thermal collector(s) in operation** | **是(Yes)** |  |