

| Sl. No. | Implementation period | Name of the Winner | Technology | Savings from single pilot demonstration | | | Savings from all pilot demonstrations | |
|---|-----------------------|---|--|--|--|-----------------------------|---|--|
| | | | | Annual Energy Savings (coal / diesel / electricity) | Net annual CO ₂ emissions avoided, tons of CO ₂ /annum | No. of pilot demonstrations | Annual Energy Savings (coal / diesel / electricity) | Net annual CO ₂ emissions avoided, tons of CO ₂ /annum |
| Winners of 2019 (2nd Innovation Challenge) | | | | | | | | |
| Waste Heat Recovery | | | | | | | | |
| 1 | FY 2021 | Promethean Energy | Waste Heat Recovery System for the Textile Dyeing unit Hot Effluent | 453 tons of coal per WHR system | 618 | 1 | 453 tons of coal per WHR system | 618 |
| 2 | FY 2020 | ENCON | Development of regenerative burners single Pilot site: ENCON | 22.320 tons of LPG per year in a 50,000 kcal test furnace | 64 | 1 | 1.09,620 Sme of gas (NG) is saved annually | 230 |
| 3 | FY 2022 | Aspiration Energy | High temperature heat pump for industrial process heating | 18.48 kL of Diesel is saved in the canteen | 34.421 | 1 | 18480 liters of diesel | 34.421 |
| 4 | FY 2022 | CEEP | Heat recovery from cotton textile dye effluent | 215.8 tons of coal per WHR system | 253.09 | 2 | 431.6 tons of coal savings | 506.18 |
| Pumps, Pumping systems, and motors | | | | | | | | |
| 5 | FY 2022 | Aquasub Engineering | Performance improvement of mixed flow centrifugal multistage pump | 12.5 MWh per pump | 9.8 | 10 | 125 | 98 |
| 6 | FY 2021 | Shakti Pumps | Micro Smart Pump | 1.3 MWh per pump | 1 | 17 | 22.1 | 17 |
| 7 | FY 2022 | Water Hand Limited | Pression irrigation algorithms and IoT unit. | 157 kWh/crop cycle 1566 kL of water / crop cycle | 0.124 | 16 | 2.512 | 1.984 |
| 8 | FY 2022 | Sense It out intelligent solutions Private Limited | Sensor Based Intelligent Crop Centric Automation (SICCA) | 108 kWh/crop cycle 1081 kL of water / crop cycle | 0.085 | 6 | 0.648 | 0.51 |
| 9 | FY 2022 | Scientific and Industrial Testing and Research Centre (SI'Tarc) | Smart Submersible Pump with high-speed permanent magnet motor | Submersible pump - 5hp @ 2.0 MWh annual savings Submersible pump - 7.5hp @ 2.12 MWh annual savings Submersible pump - 20hp@ 8.8 MWh annual savings | Submersible pump - 5hp - 1.5 tons of CO ₂ /annum/pump Submersible pump - 7.5hp - 1.67 tons of CO ₂ /annum/pump Submersible pump - 20hp - 6.9 tons of CO ₂ /annum/pump | 15 | 12.96 MWh of annual electrical savings | 10.23 |
| Space Conditioning | | | | | | | | |
| 10 | FY 2022 | Inficold India Private Limited | 200 Lt Solar milk-cooler to provide instant chilling at the point of collection | 610 litres of Diesel per milk chiller | 5.2 | 12 | 7320 | 62.4 |
| 11 | FY 2021 | New Leaf Dynamics Private Limited | Refrigeration systems powered by farm waste using climate-friendly refrigerant provide on-farm cooling | 5.4 MWh per GreenChill | 0.039 | 1 | 5.4 | 0.039 |
| 12 | FY 2021 | Promethean Spenta Tech. Private Limited | Milk-can cooling solution for chilling milk in the village with a thermal storage system | 367 litres of diesel per milk chiller | 0.8 | 11 | 4037 | 8.8 |
| 13 | FY 2022 | Zedbee Technologies | ZedBee – Automated HVAC control in buildings | 13.3 MWh of electrical savings | 10.5 | 5 | 18.62 | 14.7 |
| 14 | FY 2022 | Tan90 Thermal solutions Private Limited | Fast Charge Phase Change Material (PCM) based transport containers - Portable Cold Storages for first and last mile transport of perishables | 121 kWh of electrical energy per PCM | 0.09 | 600 | 72.6 MWh of electrical energy | 54 |
| | | | <i>Sub Total 1</i> | 19.457 kl/year of diesel 668.8 tons/year of coal 15.896 MWh/year electricity | 1007.211 | 698 | | 1656.264 |
| Winners of 2020 (3rd Innovation Challenge) | | | | | | | | |
| 1 | FY 2022 | AFECO Heating Systems | Al-Thermos | 46.212 MWh for each Althermos installation | 36.507 | 1 | 46.212 MWh | 36.507 |
| | | | <i>Sub Total 2</i> | 46.212 MWh/year electricity | 36.507 | 1 | | 36.507 |
| | | | Grand Total | 19.457 kl/year of diesel 668.8 tons/year of coal 92.018 MWh/year electricity 22.320 tons/year of LPG | 1043.718 | 699 | | 1692.771 |