



PDDPU

PANDIT DEENDAYAL PETROLEUM UNIVERSITY

CEGE

CENTRE OF
EXCELLENCE FOR
GEOTHERMAL
ENERGY



ABOUT GEOTHERMAL SPACE HEATING AND COOLING SYSTEM

The heat pump based geothermal heating and cooling system, which is first of its kind in India. Geothermal Space Heating and Cooling system at Dholera is based on Ground Source Heat Pump (GSHP) instrument. CEGE has drilled a well of 1000 ft depth in Dholera, which produces water at 45 degree Celsius at the flow rate of 7 litres per second. The system is established at Swaminarayan Temple, Dholera. The hot water produced from the wells is utilized for Space Heating and Cooling system. The output from cooling side of the system will be utilized for comfort cooling to assembly Hall at the temple. While, the output from heating side of the system will be utilised as an input to Organic Rankine Cycle (ORC) for power generation at pilot scale. The system will produce cooling of 32 TR capacity for the Sabhamandap of the temple as an additional benefit. The heat pump system is highly energy efficient and eco-friendly system with minimum usage of water and optimum requirement of electricity.

Geothermal Space Heating and Cooling Plant will be inaugurated by Shri Bhupendra Sinh Chudasama, Hon'ble Minister for Revenue, Education (Primary, Secondary and Adult), Higher and Technical Education, Legislative and Parliamentary affairs, Government of Gujarat

CENTRE OF EXCELLENCE FOR GEOTHERMAL ENERGY (CEGE)

INAUGURATION OF SPACE HEATING AND COOLING SYSTEM AT DHOLERA

DATE : 13th December, 2016

VENUE: Swaminarayan Temple,
Dholera, Gujarat

TIME : 04:00 PM



ABOUT PDDPU

Pandit Deendayal Petroleum University's 100 acre campus is located in Gandhinagar, which is the capital city of Gujarat and located 23 Km North from a well developed city called Ahmedabad with a population of 8 million people. The city is famous for its remarkable cultural development and social life.

PDDPU offers multiple courses ranging from engineering, arts and management along with maximum exposure and opportunities to its students through various national and International exchange programs with best University worldwide. For development of its faculties and staff the University endeavors for various Joint Exchange and Research programs.

ABOUT CEGE

Centre of Excellence for Geothermal Energy (CEGE) was established on 10th of October, 2013 at Pandit Deendayal Petroleum University (PDDPU) with the support of Government of Gujarat. CEGE is carrying out extensive research and development (R&D) activities in the area of exploration and exploitation of geothermal energy. CEGE has carried out various geological and geophysical exploration surveys to identify different hot springs in Gujarat. Based on the exploration activities carried out CEGE has identified potential locations for harnessing the geothermal energy. CEGE has set-up a Space Heating and Cooling System at Dholera, Gujarat which is first of its kind in India. Subsequently, CEGE has planned various activities to harness geothermal energy in Dholera and activities on further exploration in the area of Unai.



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www.pdpu.ac.in

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