



# PUNJAB

front runner

Punjab has several programmes in place for driving energy efficiency (EE) in buildings, industry, municipalities and DISCOMs. The state could, however, improve programmes for Transport. Additionally, the state could start tracking the effectiveness and impact of EE programmes using quantitative indicators such as energy intensity and penetration of EE technologies in each demand sector.

## BUILDINGS



Punjab notified ECBC in June 2016 and has drafted it in the municipal building bye-laws as of March 2018. In addition to EESL's UJALA programmes for LED bulbs and EE fans, the state has a LED village programme and a state-wide programme for EE appliances. The state provides financial incentives for ECBC compliant construction/retrofits, including a 15% rebate in property tax. Punjab has 55 registered green buildings; and, Incubation Centre, Software Technology Parks of India, Mohali was awarded 'Exemplary Performance in Energy Management' by GRIHA in 2016. For the first Index Punjab is one of the few states that provided data on building energy intensity (kWh/m<sup>2</sup>) for commercial and residential buildings in the state.

## INDUSTRY



Punjab works with BEE to enforce the PAT programme for Designated Consumers (DC). 81% DCs in the state met the Specific Energy Consumption (SEC) target for PAT Cycle I. Energy usage in the sector is tracked to some extent through mandatory PAT audits. However, the state could consider mandating energy audits for non-PAT industries as well. The state provides support for energy audits in the MSME Sector. The state could consider implementing specific EE projects and tracking energy intensity in select MSME clusters.

## MUNICIPALITIES



Punjab has implemented LED street lighting through EESL's SLNP scheme and a state programme for municipalities. It has signed up for EESL's MEEP programme for efficient water pumping. The state also has its own programme for replacing existing inefficient pumps with efficient ones. The state could consider setting an energy saving target for municipalities, and also track the impact of EE programmes in the municipal sector.

## TRANSPORT



In the first State EE Index the focus was on efficiency of SRTCs and penetration of EVs. Punjab conducts awareness programmes on fuel saving for SRTC personnel. The state is in the middle tier when it comes to fuel efficiency of the SRTC. The state is in the lower tier when it comes to penetration of passenger EVs via the FAME scheme.

## AGRICULTURE & DISCOM

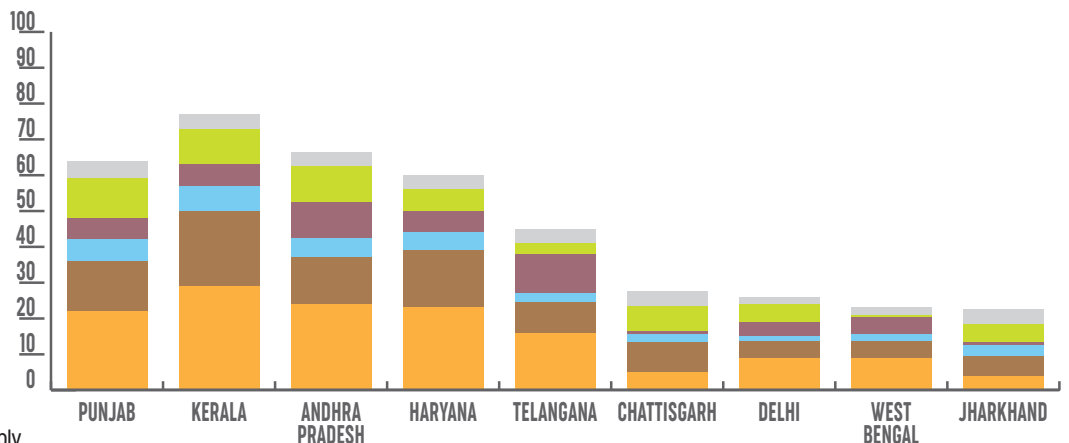


Punjab's T&D losses are 18.55%, placing it in the middle tier among all states. The state has notified Demand Side Management (DSM) regulation and has set a target of 30% energy savings through AgDSM. The state also provides financial incentives for other DSM measures.

Punjab Energy Development Agency (PEDA) is the State Designated Agency (SDA) for energy efficiency. Though not a dedicated standalone SDA focussing entirely on energy efficiency, it has funds allocated for energy conservation and energy efficiency. PEDA supports EE projects using Revolving Investment Fund (RIF) mechanism.

**PUNJAB**  
Scores in TPES Group 2  
[33.2% of national TPES]

- Buildings
- Industry
- Municipalities
- Transport
- Agriculture & DISCOM
- Cross Sector



TPES - Total Primary Energy Supply