

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1918
ANSWERED ON 09.03.2026

THE COMPONENTS OF INDIA ENERGY STACK

1918. SHRI SUJEET KUMAR:

Will the Minister of **POWER** be pleased to state:

- (a) the components, architecture and functional layers of the India Energy Stack (IES) as envisaged by Government;
- (b) whether pilot utilities have been selected for the IES proof-of-concept (PoC), if so, their names and the selection criteria;
- (c) the proposed timeline and key milestones for nationwide rollout;
- (d) the budget allocated and expenditure incurred to date for its development, testing and rollout; and
- (e) the measures to integrate existing OT/IT systems of GENCOs, TRANSCOs and DISCOMs with the IES to ensure interoperability and prevent duplication or fragmentation?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) to (e): India Energy Stack (IES) is envisioned as a digital blueprint for the power sector as a whole, so that the disparate parts of the power system can connect and communicate securely through standard protocols. The Ministry has constituted a task force comprising domain experts and various stakeholders including representatives from Ministries, State utilities, Regulators, Gencos, Transcos, etc. for roadmap of IES including its component and design. IES is envisaged to lay down protocols/specifications to enable interoperability and ensure that data, services and systems work together seamlessly across the power sector value chain.

Distribution utilities of Delhi, Gujarat, Andhra Pradesh, Uttar Pradesh and Mumbai have been identified for pilot implementation and timeline for demonstration of the same is FY 2026-27.

The total fund allocated for the development of IES is Rs. 51.3 Cr, of which Rs. 3.88 Cr has been released.
