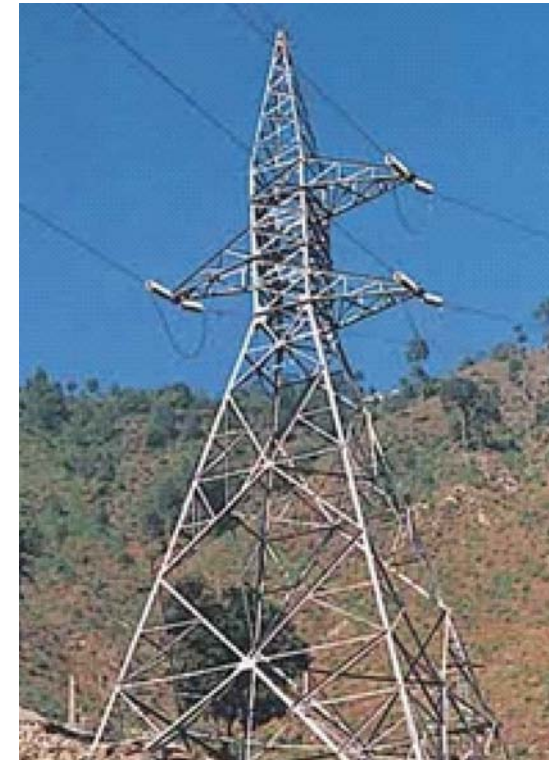




Emergency Restoration System for power lines (ERS)



**CSIR-Structural Engineering Research Centre
(CSIR-SERC), Chennai**

For details contact:

The Director

CSIR-Structural Engineering Research Centre

(Council of Scientific & Industrial Research)

CSIR Campus, CSIR Road, Taramani, Chennai - 600 113, INDIA

Ph.: 91-44- 22549201; Fax: 91-44-22541508

Email: director@serc.res.in, Website: <http://www.serc.res.in>

Facebook: <https://www.facebook.com/csirserc>

Emergency Restoration System for power lines (ERS)

In the event of Transmission Line (TL) tower failures, permanent restoration may take several weeks. Emergency Restoration System (ERS) is light weight modular system used as temporary support structure to restore power lines immediately with minimal losses

Technical Features

- Easy to plan and use
- Compact system yet economically affordable
- Use of light weight material for easy to transport system
- Modular in nature for easy to construct/assemble
- Easy to construct foundation system suitable to all type of soils
- Flexible enough to develop various configurations
- Scalable system, can be used for 33 to 800 kV transmission lines
- Suitable for Industrial production

Unique Selling Pre-position

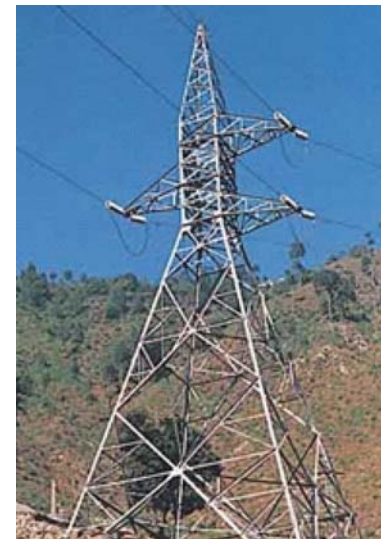
Economic Impact	ERS as a product will provide fabrication works to the manufacturing units and its deployment will ensure minimal power cuts at the time of tower failures and hence the industry will run smoothly. Thus bringing down the businesses interruption losses.
Societal Impact	On collapse of transmission line tower/s, the temporary power restoration can be achieved in 2-3 days instead of several weeks required for permanent restoration. The permanent restoration can be taken up afterwards or simultaneously.

Environmental Impact Since power will be made available in short span of time, use of fossil fuels for temporary power generation and the associated pollution can be minimized.

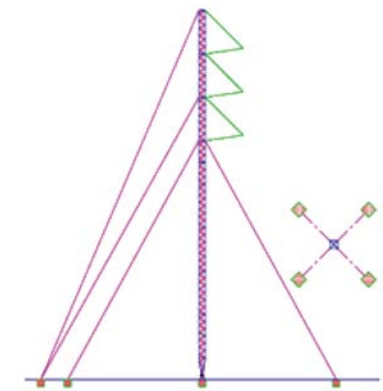
Industrial partner(s)/Stakeholders

This technology can be adopted by the Power Ministry to improve the power transmission during failures. The stakeholders are:

- State Electricity Boards
- State Power Transmission Companies
- Power Grid Corporation of India



Typical 132 kV TL tower



Equivalent ERS for 132 kV TL Tower