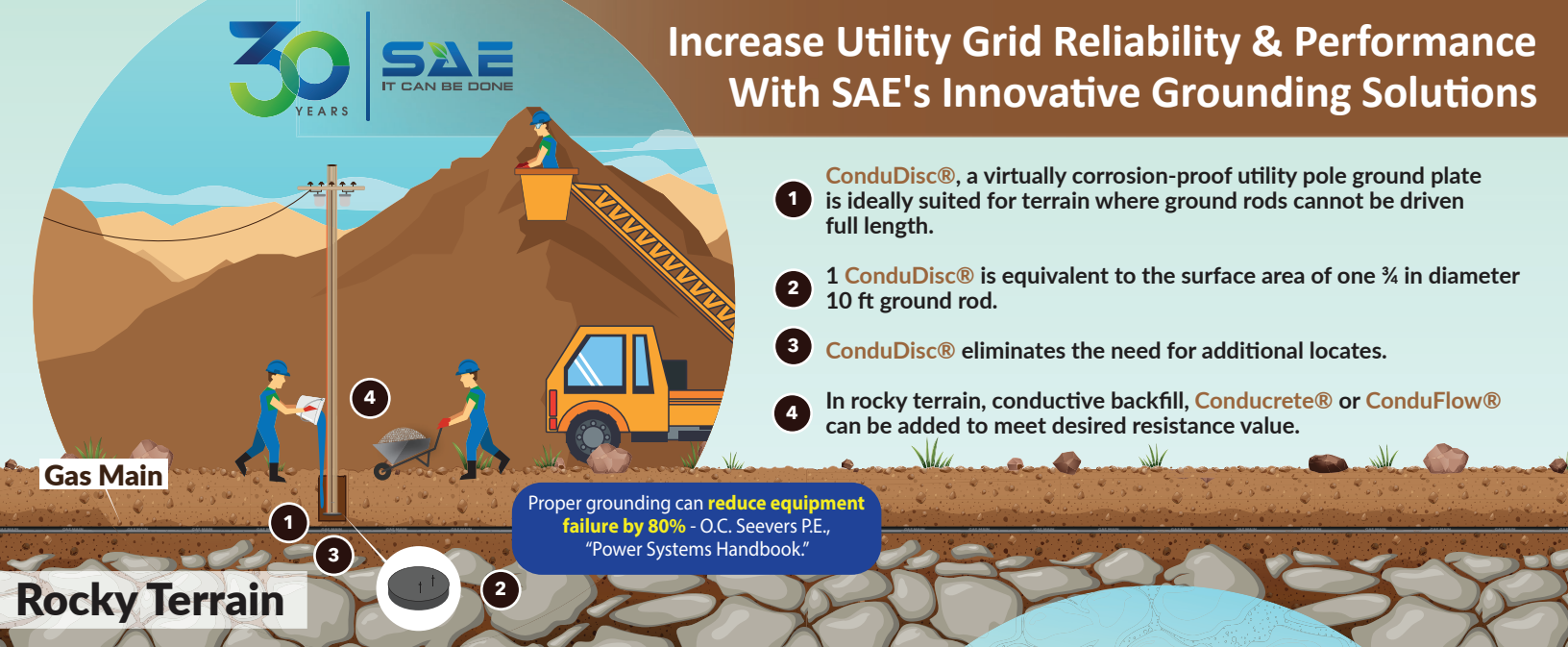


Increase Utility Grid Reliability & Performance With SAE's Innovative Grounding Solutions



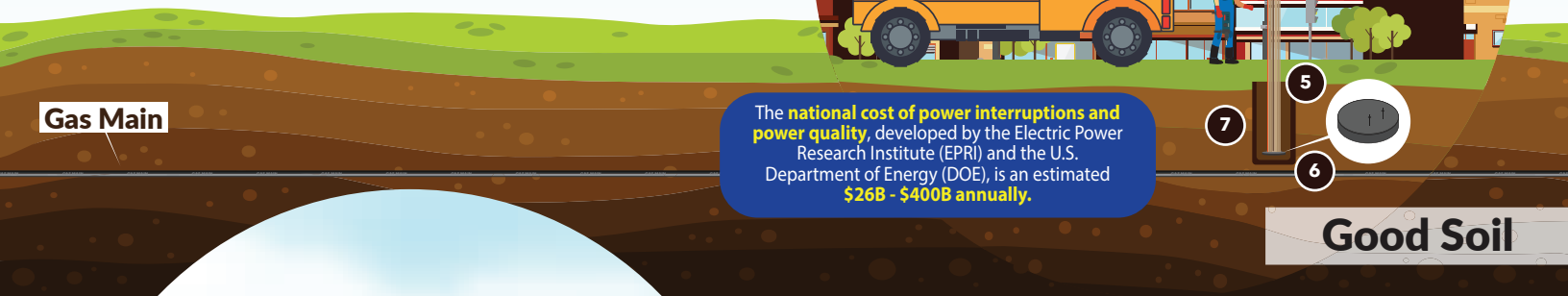
Gas Main

Proper grounding can **reduce equipment failure by 80%** - O.C. Seevers P.E., "Power Systems Handbook."

- 1 **ConduDisc®**, a virtually corrosion-proof utility pole ground plate is ideally suited for terrain where ground rods cannot be driven full length.
- 2 1 **ConduDisc®** is equivalent to the surface area of one ¾ in diameter 10 ft ground rod.
- 3 **ConduDisc®** eliminates the need for additional locates.
- 4 In rocky terrain, conductive backfill, **Conducrete®** or **ConduFlow®** can be added to meet desired resistance value.

Rocky Terrain

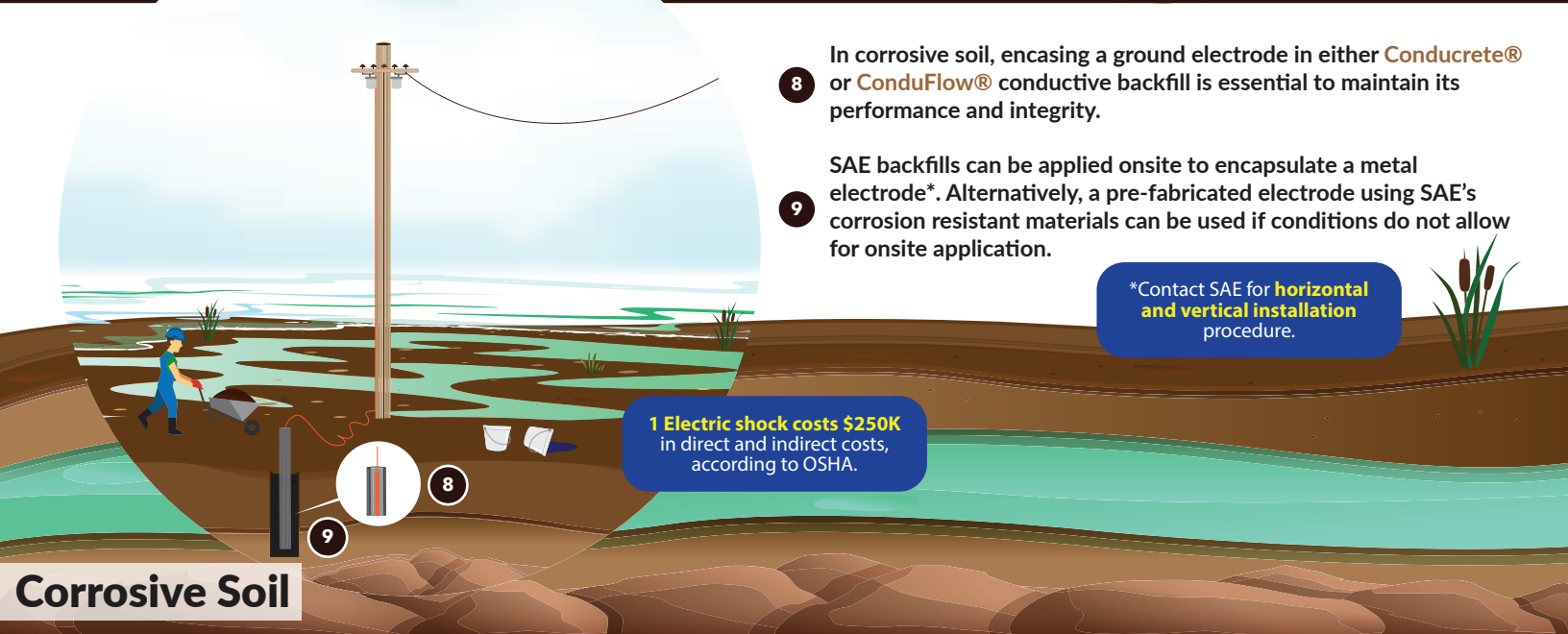
- 5 **ConduDisc®** installs in less than 2 minutes and requires no ongoing maintenance.
- 6 **ConduDisc®** will last the life expectancy of the utility pole.
- 7 **ConduDisc®** can be installed with wood, composite and metal poles.



Gas Main

The **national cost of power interruptions and power quality**, developed by the Electric Power Research Institute (EPRI) and the U.S. Department of Energy (DOE), is an estimated **\$26B - \$400B annually**.

Good Soil



- 8 In corrosive soil, encasing a ground electrode in either **Conducrete®** or **ConduFlow®** conductive backfill is essential to maintain its performance and integrity.

SAE backfills can be applied onsite to encapsulate a metal electrode*. Alternatively, a pre-fabricated electrode using SAE's corrosion resistant materials can be used if conditions do not allow for onsite application.

*Contact SAE for **horizontal and vertical installation** procedure.

1 **Electric shock costs \$250K** in direct and indirect costs, according to OSHA.

Corrosive Soil