Harm to the environment resulting from industrial incidents is still a common event. Analysis of the causes of these pollution events shows that loss of containment of hazardous substances is a major contributor.

**What we offer**
We have developed our own EHR methodology as a management tool to identify and analyse environmental risks that are potentially significant.

The outputs from the study can be used to identify environmental accident scenarios and critical items of plant used to prevent serious impact on the environment. The methodology has been used in several industries to focus maintenance resources towards plant items which are relied upon to provide environmental risk reduction.

We also use it to identify environmental accident scenarios, and to indicate where weakness exists within current accident management and response planning.

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### The EHR process

1. Identify hazard sources
2. Define credible loss of containment scenarios
3. Determine pathway to receptor
4. Identify existing protection/mitigation measures
5. Assign severity of event
6. Assign frequency of event
7. Determine risk score and plot risk matrix
8. Generate improvements

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Reduce spillages and other harmful accidents with ABB’s EHR.
EHR is designed to meet the needs of the process industries. It provides a cost-effective environmental risk management tool and can be used to reduce insurance premiums, avoid heavy fines and remediation costs. It can also be used to protect an organisation’s public image by avoiding, controlling and minimising environmental incidents capable of creating an adverse impact on public relations.

EHR provides a pragmatic approach for identifying potential environmental hazards without the need for a detailed HAZOP. This saves on both time and resources and is led by an ABB hazard study leader / environmental specialist.

A staged approach to identifying hazard sources, pathways to the environment, sensitive environmental receptors and suitable prevention and mitigation measures, the methodology is an efficient method of addressing genuine environmental concerns. It does this by taking into account the facility’s existing knowledge of operation and maintenance.

The output of our EHR methodology is an auditable and traceable record of the assessment process. It provides details of the key arguments and assumptions taken during the review sessions as well as a summary of the actions and details.

Benefits
- Reduction of pollution incidents
- Greater understanding of environmental risks within the business
- Dissemination of best practice
- Focuses effort on critical equipment and activities to allow clients to effectively manage environmental risk

Why ABB?
Our engineers and consultants have operational backgrounds and make pragmatic technical judgements based on their experience. It’s an approach that ensures cost-effective, practical-to-implement solutions which work.

ABB have extensive knowledge and experience of environmental accidents, their prevention, control and systems designed to mitigate them. We are experienced environmental specialists and accredited hazard study leaders.