

Environmental & Sustainability Sector

Who?

Our team is composed of 18 members including brilliant experts, highly experienced in environmental sustainability and mitigation strategies.

Why?



We established the department to change the idea of waste management in addition to having systematic protocols and procedures to implement sustainability practices

When? 2010 - 2020 2023 2021 2022 Focused towards Standardizing procedures Prior to 2020 there Establishment of sustainability and staff to monitor on was no Environmental Environment site activities department Department

How?



By having an approach of Monitoring, containing/controlling, correcting, implementing, improving. And changing the culture and the mindset to BAT & BEP, by utilizing our initiatives and targets presenting our "Environmental Technical Solutions"

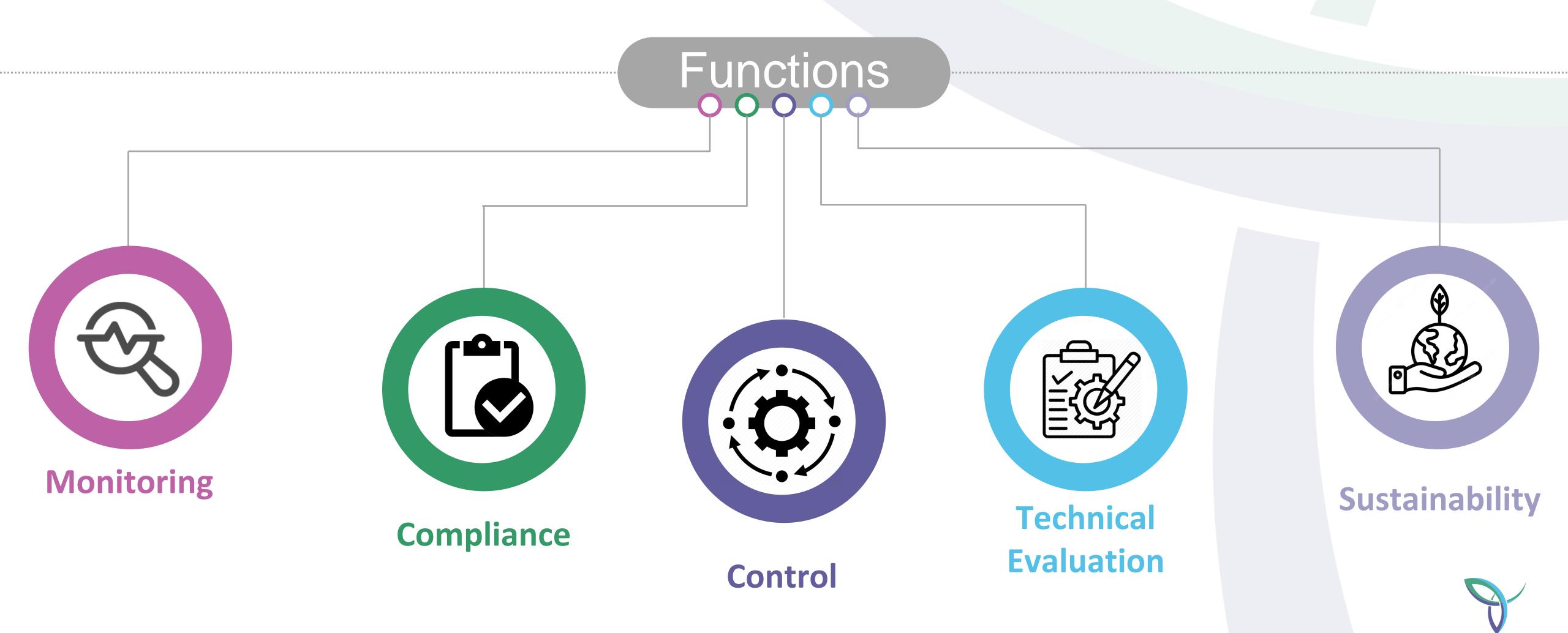
What?



- 1- 100% Env. compliance
- 2- Setting sustainability Objectives/Target,
- 3- Ensure maintaining environment resources.
- 4- Reduce GHG's emission.
- 5- Using green energy instead of hydrocarbon.
- 6- Integration of circular economy.
- 7- landfill diversion

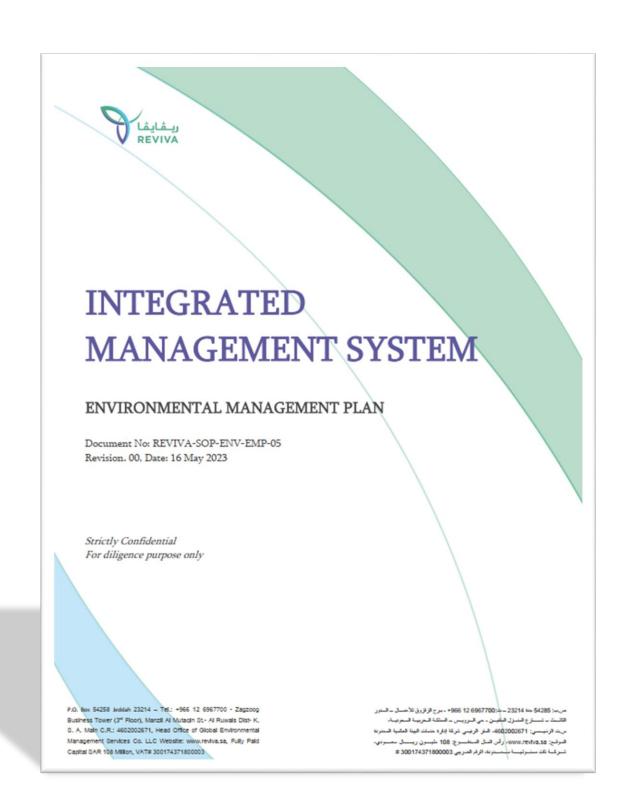


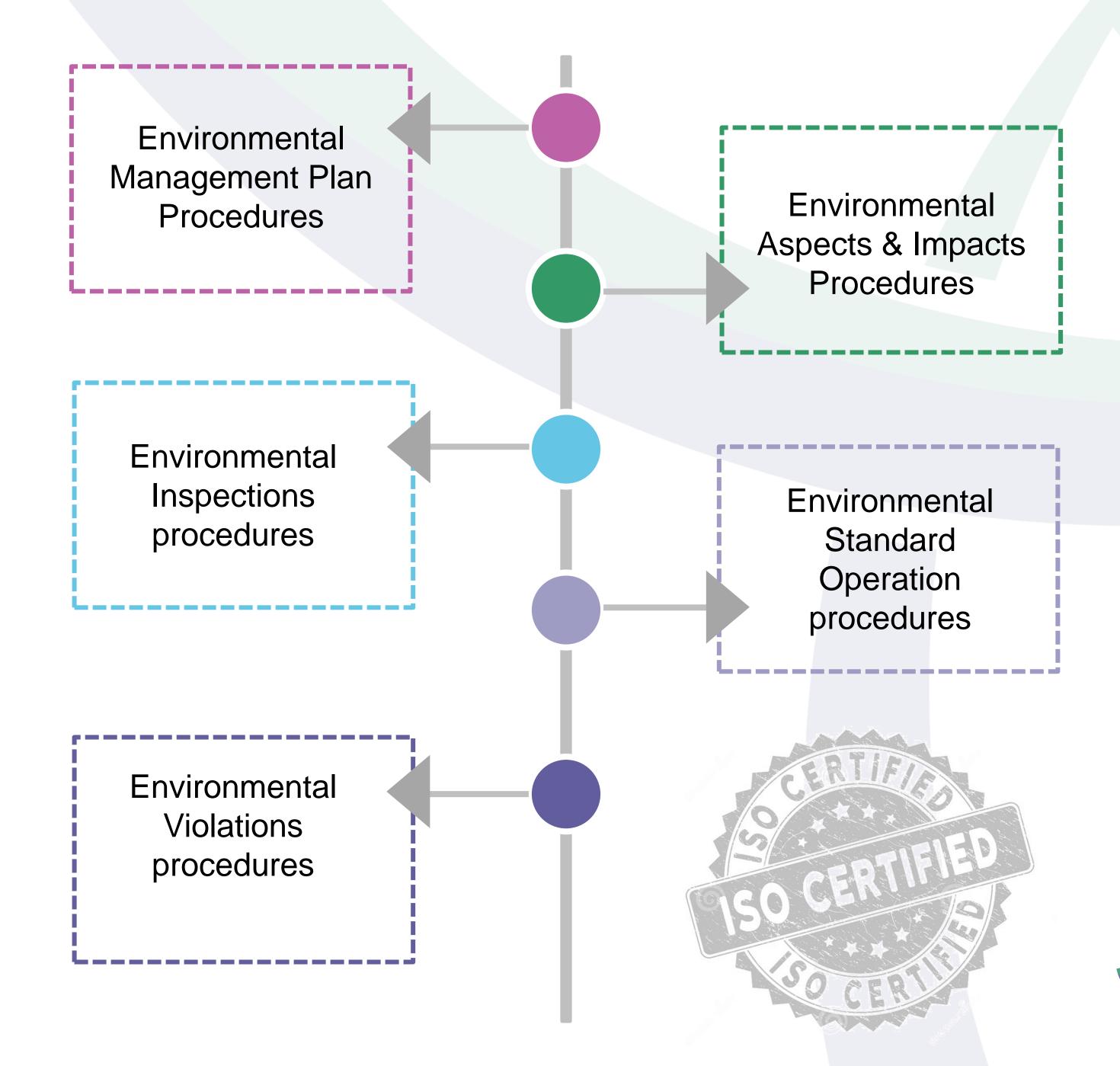
Departmental Key Role & Functions



Environmental SOPs

StandardOperatingProcedures







Environmental Early-stage challenges

Environmental Early Challenges

Technical practice challenges

- Treated spent caustic with high sulfide discharge to pond.
- Treated sludge with high hydrocarbon materials.
- Water from scrubber was stored in unqualified area
- Lack of utilization of units resulting in:
 - 1- Process delay.
 - 2- High consumption of reagents.
 - 3-High concentration of emission

- Lack of technology to handle multiple stream of wastes.
- Improper methods for handling and storing materials.
- Lack of maximizing assets utilization



Environmental Early Challenges

Compliance challenges

- Lack of tracking the licenses and permits.
- Unauthorized materials was transported between GEMS facilities.
- Some facilities were operating without permits / licenses.

Control challenges

- Continuous uncontrolled emissions
- Insufficient data of manifestation
- Laboratories insufficient sampling and testing in procedures & equipment
- Site documentation; not unified form and lack of information.



Environmental Solutions





Centralizing environmental department

Systematic procedures followed by strict actions are being implemented

The top management is conducting a compliance committee meeting bi-weekly

Appointing regulator approved 3rd party for all respective site to conduct quarterly based environmental records

Regulator approvals are obtained based on technical justification and submission aligned with operation.

Formalizing and standardizing all environmental related documents with involvement of QA/QC for ISO certification.

The findings of Environmental Records is been reviewed by environmental department for technical solutions and communicated with operation for executions

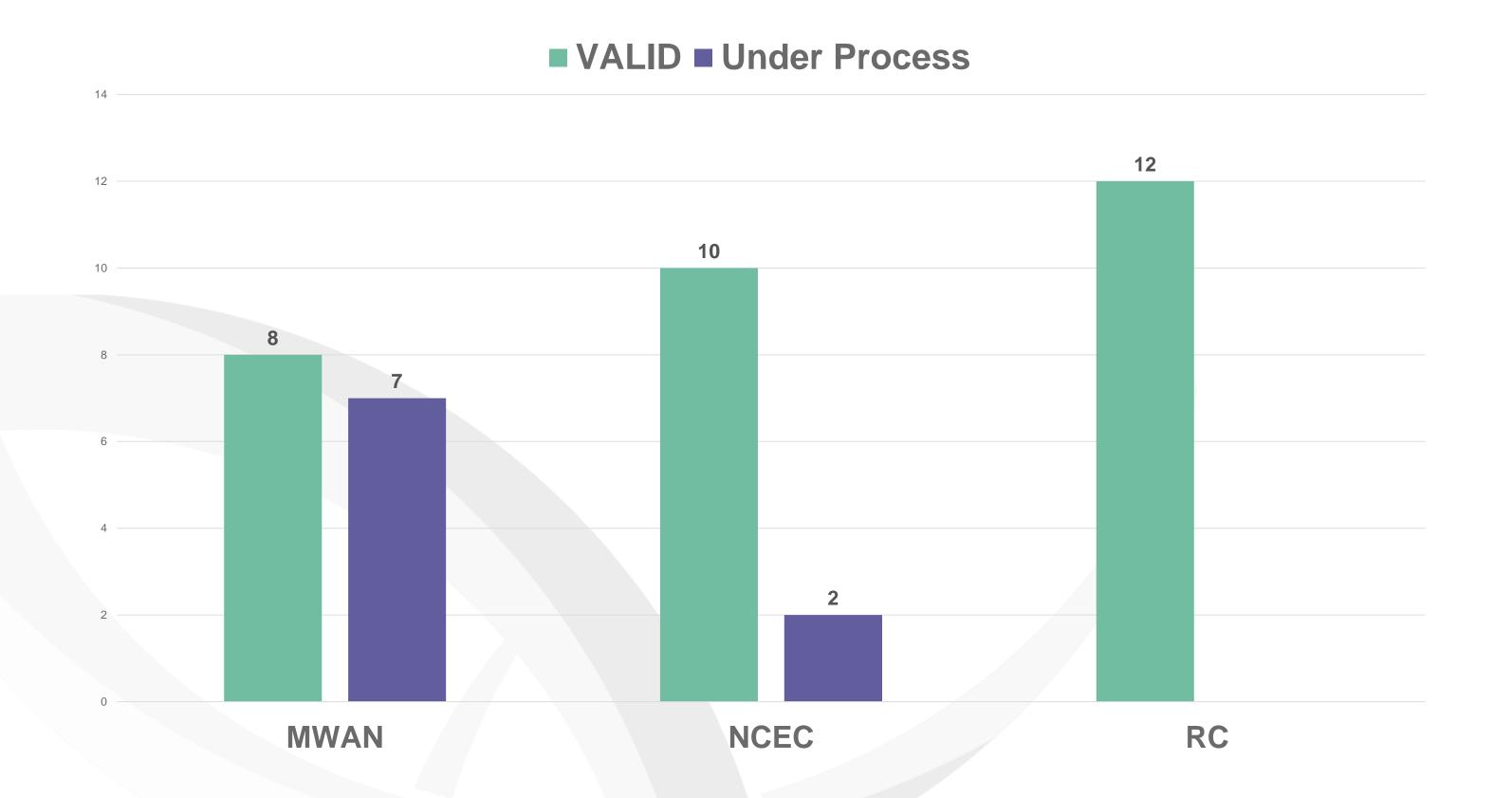
Environmental representative has been assigned in all sites to:

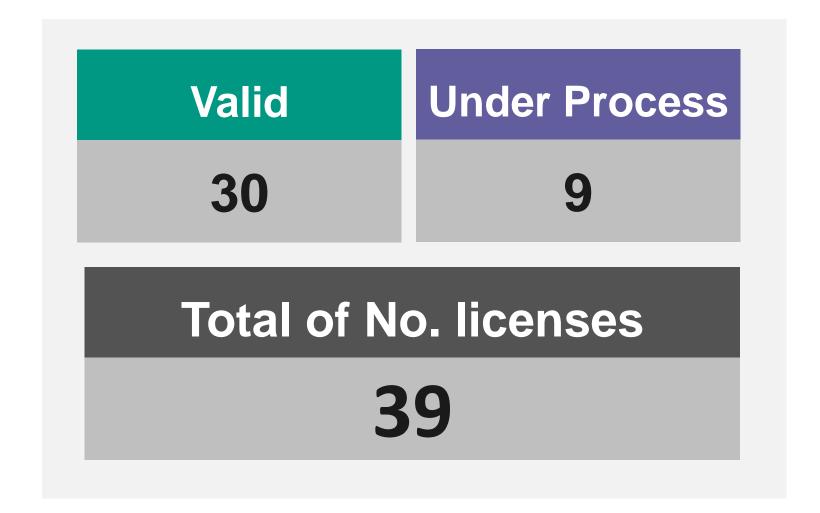
- a. Smoothen communication with operation
- b. Act as a focal point with regulators
- c. Aid with technical support

Environmental Compliance

Site License Status

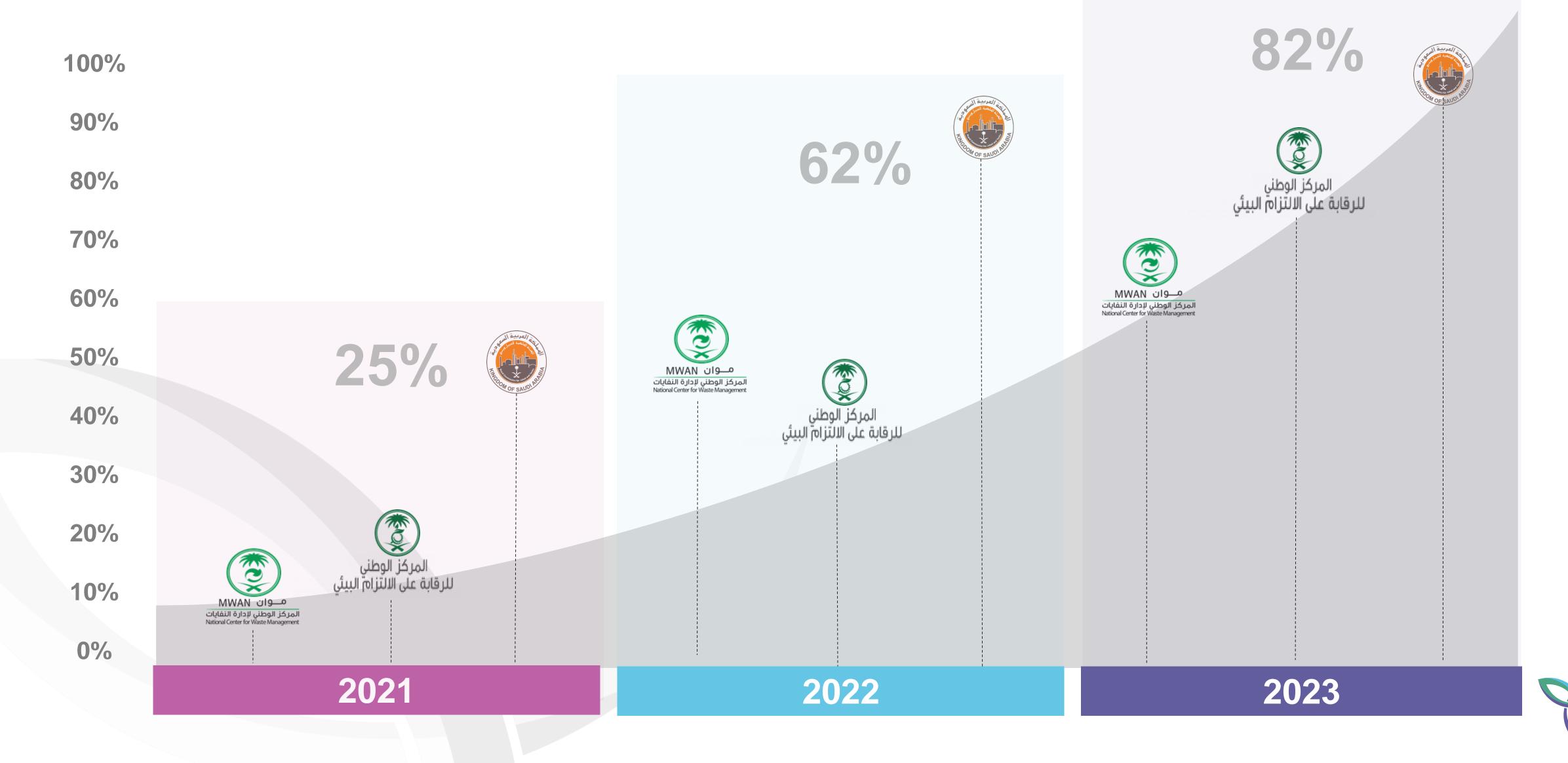
The chart displays the status of license by regulatory bodies





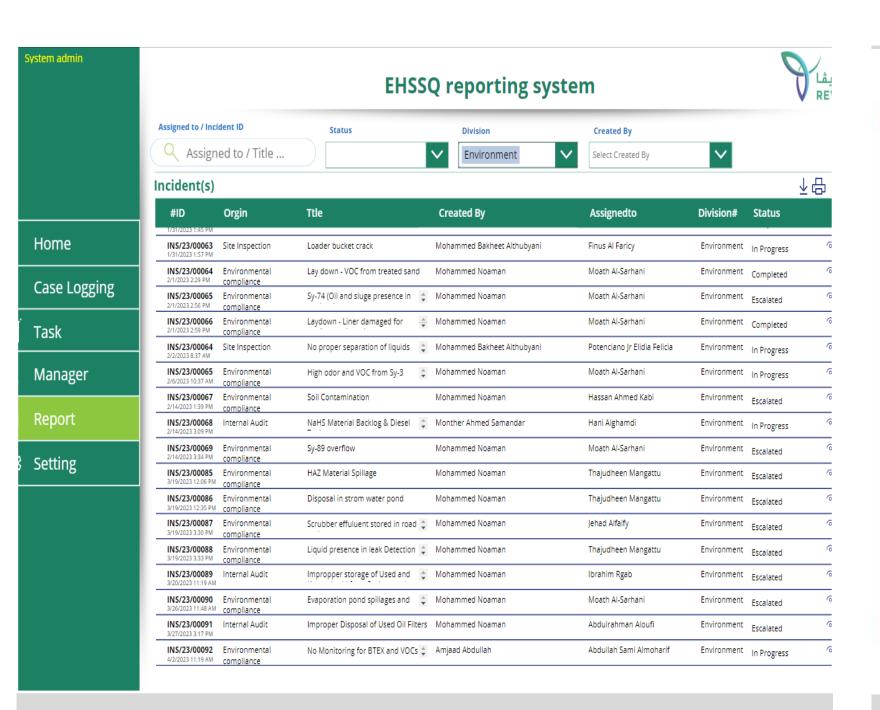


COMPLIANCE PERFORMANCE FROM 2021 to 2023



Environmental Initiatives

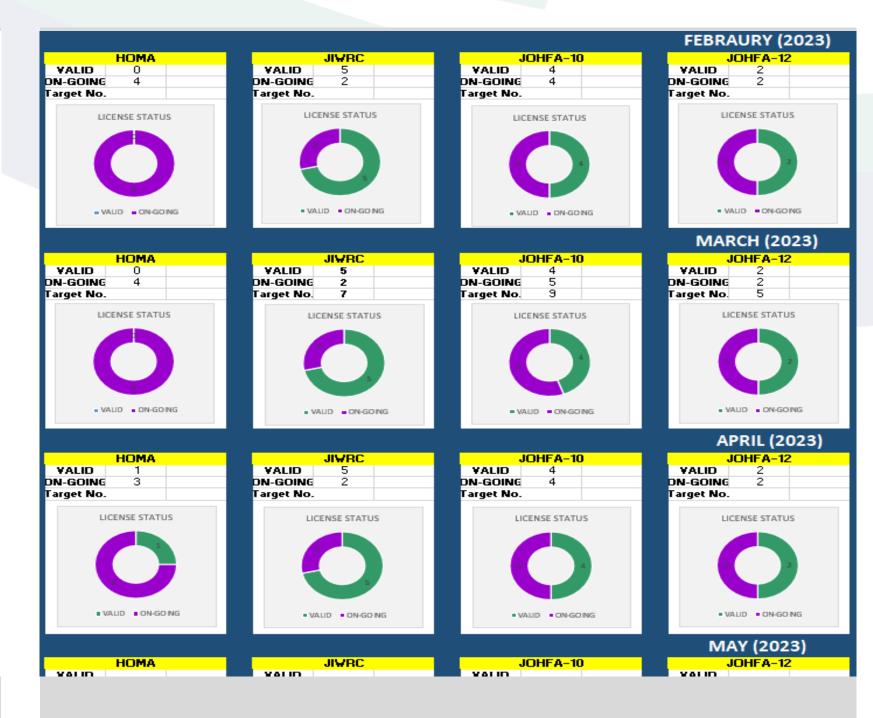
Initiatives of Environmental & Sustainability Sector



EHHS Dashboard



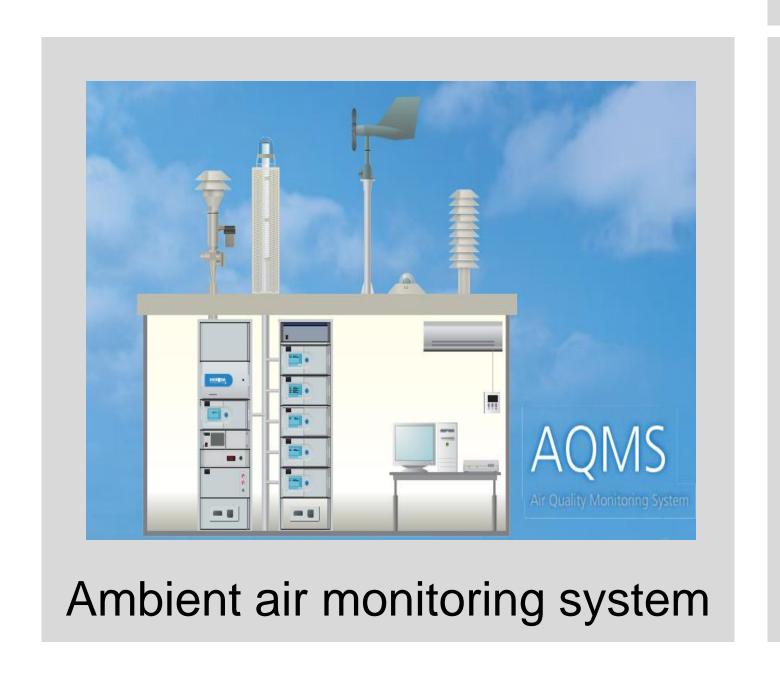
Waste ID system



License tracking system



Initiatives of Environmental & Sustainability Sector

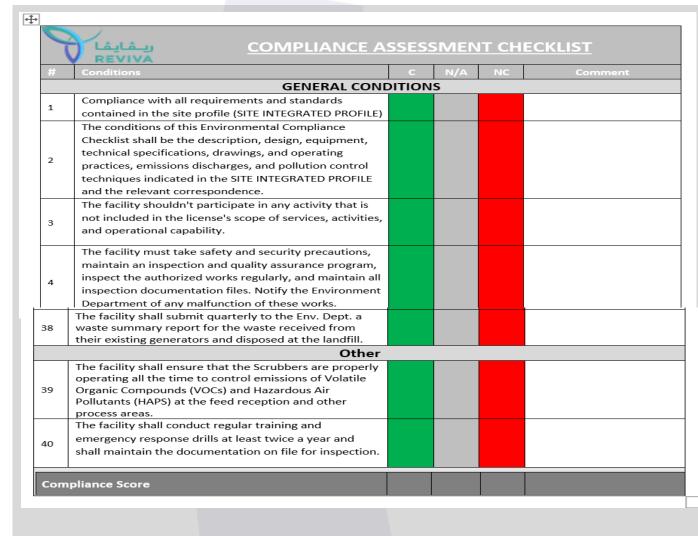


Technology Gathering the Analyzing the **Evaluation Results** data Identify the methodology of Formulate the data to statistical Improve control system. treatment. · Prevent and mitigate the incident Identify the technologies. Probability might causse by the · Measuring the data. - Technology function. Methodology & technologies emissions. - Technology Capability. Improv ERP. assessments. - Technology process. Implement the technology Risk assessments. Input & Output of waste. · Defined the factors. improvement project. Identify the treatment, recycling Indicators. and disposal. Meet Regulater.

Technical Evaluation system

Waste management Certificate

Air emission inventory program



Unified Compliance Standards

Thank You