

## SUSTAINABILITY MANAGEMENT SYSTEM

### *Environmental Management*

Prevention of pollution in operation & care for environment is part of our HSEQ Policy statement. To strengthen our firm stand for sustainable development, we continued with investments aimed at improvement of our environmental performance in the year 2021.

We focus on the prevention and minimization of negative impacts on the social, environmental and economic aspects through the implementation of appropriate measures, procedures & technologies. In this context, we continued our initiatives for improving the production processes, Energy conservation, solid waste management & resource conservation etc.

The systematic introduction of technological advancements in ARL operation processes, environmental legislation and our active participation in consultation processes at different forums contribute significantly to align ARL's strategy for the pursuance of sustainable development along with targeted environmental investments and extensive environmental enhancement programs.

### *Materiality analysis to identify sustainability issues*

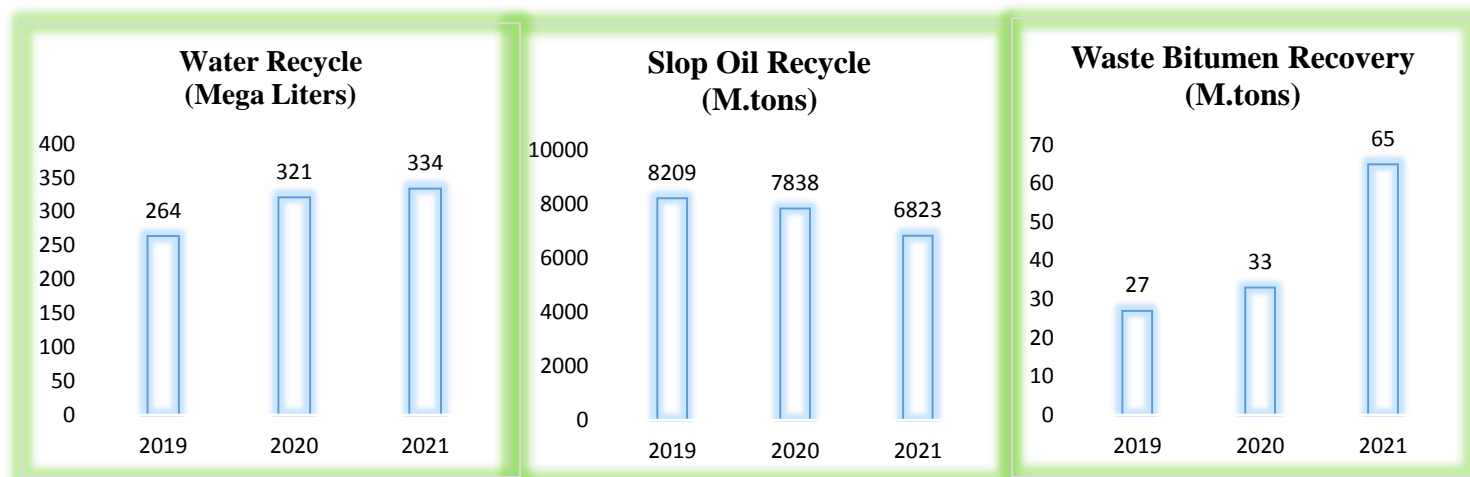
Materiality principles have been applied for the identification of significant ESG issues specifically environment. On the basis of significance, we categorized our plans as short, medium and long-term. This approach results in shorter, focused and sustainable solutions to these issues.

We have identified our environmental issues by thoroughly reviewing our environmental impact & risk assessment studies, legal environmental obligations, feedback from customers, best available environmental management practices, community & employee's feedback, coordination with environmental protection agencies like Federal and Punjab EPA, local government bodies etc.



### Resource Recycling/Reuse

Water, slop oil and bitumen are recycled in different refinery operations to enhance the resource efficiency and reduce the carbon footprints.



### Resource Materials

The company has self-implemented ISO 50001 (Energy Management System) in order to optimize its resource requirements. Below table represents the total amount of basic and auxiliary material resources directly used by ARL to continue its operational activities.

Material	Unit	2018	2019	2020	2021	
<b>Non-Renewable</b>	<b>Crude Oil</b>	M. ton	2,269,438	2,251,078	1,674,852	1,858,175
	<b>Electricity</b>	kWh	75,444,948	75,580,892	72,458,090	74,377,230
	<b>Fuel Oil</b>	Bbl.	220,332	226,082	183,175	249,576
	<b>Fuel Gas</b>	MCF	2,454,538	2,389,259	2,324,529	2,199,581
<b>Renewable</b>	<b>Steam</b>	M. Ton	502,803	536,834	495,175	497,750
	<b>Water</b>	Mega liters	1,111	1,473	1,415	1530