

Utilities Emergency Response Overview

	Short-term <i>(Hours to days)</i>	Mid-term <i>(Weeks to months)</i>	Long-term <i>(Years)</i>
<p>System Ops</p> <p>(In no particular order, depends on situation)</p>	<ul style="list-style-type: none"> Curtail energy sales to Golden Valley Electric Association Increase hydro generation Adjust generation mix based on deliverability ML&P/Chugach generation swap <i>(Joint decision)</i> Purchase up to 70 MW from GVEA Seward on own generation Increase limits on Kenai 115kV line Divert gas from LNG plant <i>(warm shutdown)</i> Reduce/eliminate thermal spinning reserve <i>(Chugach & ML&P arm SILOS)</i> ML&P converts to liquid fuel <i>(ML&P decision)</i> Emergency gas purchases <i>(beyond contractual requirements)</i> Interruptible gas customers are curtailed 3rd Party Gas Marketers adjust deliveries Adjust gas delivery points based on deliverability Increase storage withdrawals as available ENSTAR requests FNG voluntarily curtail gas deliveries 	<ul style="list-style-type: none"> Divert gas from LNG plant <i>(warm shutdown)</i> Curtail energy sales to Golden Valley Electric Association Purchase up to 70 MW from GVEA Seward on own generation Sharing agreements Emergency rates <i>(would require tariff)</i> Portable generators <i>(i.e. lease from GE and use oil bladder)</i> ML&P to continue liquid fuel <i>(ML&P decision)</i> Evaluate spinning reserve 	<ul style="list-style-type: none"> Southcentral Power Project Replacement generation ML&P Plant 1 & 2 More renewables <ul style="list-style-type: none"> -Wind, geothermal, hydro Gas storage <ul style="list-style-type: none"> -LNG, in-ground Dual fuel generation conversion Purchase power from GVEA Cook Inlet Resource Management Plan Integrate Seward generation Additional BESS to reduce spinning reserve Long-term rate design changes Integrate gas transmission system
<p>Voluntary Actions</p>	<ul style="list-style-type: none"> Retail <ul style="list-style-type: none"> -Switches under Public/Gov't control -Meet with in advance to determine actions -Switches under private control Commercial <ul style="list-style-type: none"> -Self-generation <i>(not with natural gas)</i> -Reduce exterior/lot lighting Residential <ul style="list-style-type: none"> -Action chart Utilities own facilities <ul style="list-style-type: none"> -Cut non-essential load at utility facilities Reduce non-essential gas consumption - Retail & Commercial 	<ul style="list-style-type: none"> Wholesale <ul style="list-style-type: none"> -Matanuska Electric -Homer Electric -Seward Electric Schedule customer activities (i.e., laundry) Conservation/Efficiency <ul style="list-style-type: none"> -Smart Power -Education -Smart metering -Energy audits Selected street light curtailment Reduce essential gas consumption - Retail & Commercial 	<ul style="list-style-type: none"> Wholesale <ul style="list-style-type: none"> -Matanuska Electric -Homer Electric -Seward Electric Conservation/Efficiency <ul style="list-style-type: none"> -Smart Power -Education -Smart metering -Audits Dispatchable alternative self-generation
<p>Interruptions</p>	<ul style="list-style-type: none"> Feeders prioritized -Shared responsibility among utilities -Fairness, sensitivity to critical loads, rotation -20 to 30 minutes per outage Gas curtailments of Commercial Accounts 	<ul style="list-style-type: none"> Feeders prioritized -Shared responsibility among utilities -Fairness, sensitivity to critical loads, rotation -20 to 30 minutes per outage Gas curtailments of Commercial Accounts 	<ul style="list-style-type: none"> Feeders prioritized -Shared responsibility among utilities -Fairness, sensitivity to critical loads, rotation -20 to 30 minutes per outage Gas curtailments of Commercial Accounts