# Short-Term System Adequacy Report

## Protocol and Posting

Per Protocol Section 3.2.3, System Adequacy Reports, ERCOT is required to publish reports every hour that detail the adequacy of Resources to meet projected Demand over the next 168 hours. The Short-Term System Adequacy Report aggregates the capacity from QSEs’ Current Operating Plans (COPs) and separately reports the system-wide and Forecast Zone totals of capacity from On-line Generation Resources, Off-line and available Generation Resources, and available Load Resources.

Additionally, there are two columns that provide estimates of the available capacity from Generation Resources and the available capacity from reserves. In order to avoid issues of incorrect COPs for future days, this available capacity amount is based on seasonal High Sustained Limits (HSLs) for non-Intermittent Renewable Resource (IRR) generation and forecasted output for IRRs, minus Resource Outages for non-IRR generation and DC Tie net exports.

## CapGenResTotal

This column represents the sum of all available On-Line Generation Resource capacity for each hour using the HSL values reported in the COP. To be included in this sum a Generation Resource must have one of the following Resource Statuses: ONRUC, ONREG, ON, ONDSR, ONOS, ONOSREG, ONDSRREG, ONTEST, ONOPTOUT, ONEMR, ONRR, OFFQS.

## CapGenResSouth

This column represents the sum of the available On-Line Resource capacity (CapGenResTotal as defined above) for the South Forecast Zone.

## CapGenResNorth

This column represents the sum of the available On-Line Resource capacity (CapGenResTotal as defined above) for the North Forecast Zone.

## CapGenResWest

This column represents the sum of the available On-Line Resource capacity (CapGenResTotal as defined above) for the West Forecast Zone.

## CapGenResHouston

This column represents the sum of the available On-Line Resource capacity (CapGenResTotal as defined above) for the Houston Forecast Zone.

## CapLoadResTotal

This column represents the sum of available Load Resource capacity for each hour using the difference between the HSL and LSL values reported in the COP. To be included in this sum a Load Resource must have one of the following Resource Statuses: ONRGL, ONCLR, ONRL.

## CapLoadResSouth

This column represents the sum of the available Load Resource capacity (CapLoadResTotal as defined above) for the South Forecast Zone.

## CapLoadResNorth

This column represents the sum of the Load Resource capacity (CapLoadResTotal as defined above) aggregated for the North Forecast Zone.

## CapLoadResWest

This column represents the sum of the available Load Resource capacity (CapLoadResTotal as defined above) for the West Forecast Zone.

## CapLoadResHouston

This column represents the sum of the available Load Resource capacity (CapLoadResTotal as defined above) for the Houston Forecast Zone.

## OfflineAvailableMWTotal

This column represents the sum of available Off-Line Resource capacity that can be started for each hour using the startup time and warmth state and the HSL values reported in the COP for each offline Resource. For Combined Cycle trains, the report includes any additional capacity that can come online by transitioning from the online configuration to an offline configuration with a higher HSL. To be included in this sum a Generation Resource must have one of the following Resource Statuses: OFF or OFFNS.

## OfflineAvailableMWSouth

This column represents the sum of available Off-Line Resource capacity (OfflineAvailableMWTotal as defined above) for the South Forecast Zone.

## OfflineAvailableMWNorth

This column represents the sum of available Off-Line Resource capacity (OfflineAvailableMWTotal as defined above) for the North Forecast Zone.

## OfflineAvailableMWWest

This column represents the sum of available Off-Line Resource capacity (OfflineAvailableMWTotal as defined above) for the West Forecast Zone.

## OfflineAvailableMWHouston

This column represents the sum of available Off-Line Resource capacity (OfflineAvailableMWTotal as defined above) for the Houston Forecast Zone.

## AvailCapGen

This column represents the sum of the available capacity for each hour for the next seven days. For day one, and for day two following the execution of the Day-Ahead Reliability Unit Commitment (DRUC) on day one, the available capacity will be the sum of the values calculated in columns CapGenResTotal and OfflineAvailableMWTotal, except that for IRRs the forecasted output will be used instead of COP values, and Direct Current Tie (DC Tie) exports will be subtracted. For the remaining hours of the seven days, the available capacity will be calculated as the sum of the Seasonal HSLs for non-IRR Generation Resources including seasonal Private Use Network capacity and the forecasted output for IRRs minus the total capacity of accepted or approved Resource Outages.

## AvailCapReserve

The available capacity for reserves for each hour, which will be the available capacity (AvailCapGen as defined above) above minus the forecasted Demand for that hour.