GreenBus® SPA
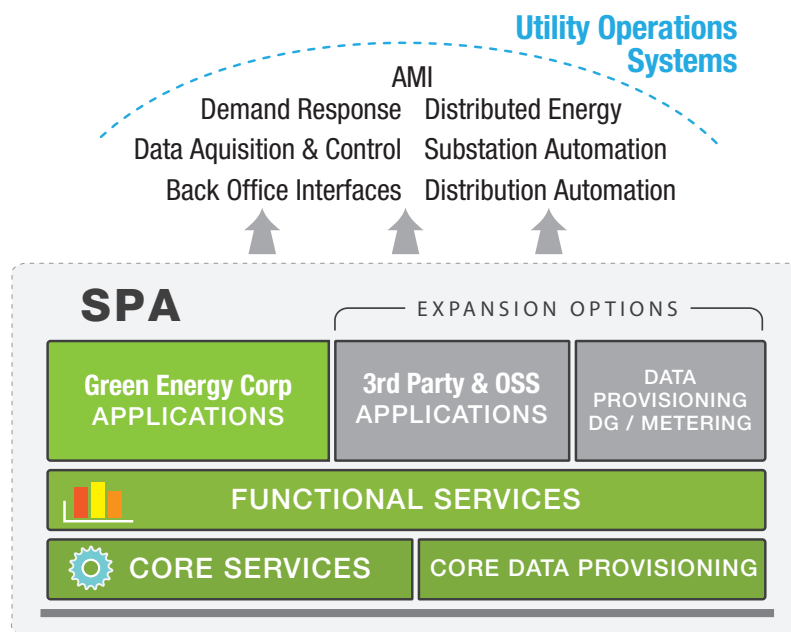## SOFTWARE PURCHASE AGREEMENT FOR UTILITIES

Green Energy Corp's revolutionary Software Purchase Agreement (SPA) allows Utilities to use the powerful GreenBus software platform on a pay-as-you-grow basis. This Smart Grid platform includes applications and functionality that can be activated on an as-needed basis. It is delivered via a secure cloud-based subscription service and eliminates capital expenditures while streamlining operations for the power utility.

Utility Operations Systems

AMI
Demand Response   Distributed Energy
Data Aquisition & Control   Substation Automation
Back Office Interfaces   Distribution Automation

SPA   EXPANSION OPTIONS

Green Energy Corp APPLICATIONS	3rd Party & OSS APPLICATIONS	DATA PROVISIONING DG / METERING

FUNCTIONAL SERVICES

CORE SERVICES | **CORE DATA PROVISIONING**

Green Energy Corp GreenBus SPA

Key Benefits

- Pay-as-you-go model offers efficiency, cost reduction
- Replaces capital expenditures for IT systems and software with predictable annual subscription fee
- Activate only the functions you need, when you need them
- Easy access to new technology, including try-before-you-buy options
- 24/7 "utility grade" performance, scalability and availability

World Class Cloud Based Services

The GreenBus SPA contract supports real-time operational systems using Green Energy Corp's GreenBus software in a hosted environment. The GreenBus facilitates the capture and management of high volume, real-time field device data and provides interoperability for applications to access and share operational data securely.

The GreenBus is also an open software platform to integrate emerging technologies – like renewables, storage and electric vehicles – into the next generation or 'smart' grid. GreenBus is hosted in a state-of-the-art data center including virtualized servers, redundant back-up systems, and physical and cyber security capabilities.

Subscription Overview

The SPA Subscription is a 7-year contract providing commercialized software, security and regulatory compliance, support for industry standards, configuration management, formalized quality assurance and continuous operational support. The contract includes Baseline capabilities and add-on options as they become available during the contract term. The Baseline subscription includes:

- GreenBus End User License Agreement for Core Services, Functional Services and select Green Energy Corp Applications
- Support and Maintenance – testing, validation, upgrades and technical support
- Baseline Implementation Services – configuration, data migration, real-time data provisioning
- Start-up and Training

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FEATURE	DESCRIPTION & BENEFITS
Subscription Based	Energy Control Center (ECC) delivered by cloud or subscription service Financial and functional flexibility for a utility through a Software Purchase Agreement (SPA)
Term	7 Year
Baseline Subscription	**GreenBus Core Services** Fault tolerant distributed database for real time capture and management of field data, high throughput messaging system and other core services **GreenBus Functional Services** GUI, Calculation Engine, Alarms, Reporting, Historian, Modeling, Logging, Trending and Core Client APIs with MultiSpeak® **GreenBus Applications** · *Data View and Control* – Alarm management, breaker operation logs, access logs, analog set points, communications alarming and event notification, switch device control & more · *Event Notification* – View & create notification from real time field data · *Fault Analysis* – Analyze COMTRADE and other formats from field data · *Historical Data Trending* – Graphical analysis of real time & historical data · *Operator Communications* – Operators can share graphical views & chat · *Communications* – Automatic topology map generation of telemetry network, real-time view of communications statistics & errors · *Meter Data Management & Repository* – Collection of metering data from AMI headends. Supports meter ping and real-time outage features · *Operator Reporting* – Easy to build reports for any real time-data stream **Real-Time Data Provisioning** Assessment and upgrade of substation systems to meet standards for compatibility with GreenBus operational data model
Expansion Options	GreenBus applications, Green Energy Corp consulting services and 3rd party applications
Pricing	Special SPA Baseline price point and pre-negotiated application discount – Please contact Green Energy Sales for SPA pricing
Quality Assurance	Formal product testing on certified hardware and software
Security Updates	Regular testing in alignment with security updates with OS and software component vulnerabilities—Secure communications on vulnerabilities and testing validation.
Features Updates	› **Latest Features Updates** (minor releases) – Access to new component features and bug fixes as they become available › **Package Updates** (major releases) – Access to new major releases, component features and bug fixes as they become available › **Deployment / Upgrade Support Program** – Documented processes for consuming major and minor updates explaining new features, impacts to operational systems, and tools to support application lifecycle management
Service Level	Guaranteed response times and issues handling – Supported issue management tracking system, reporting and escalation processes

AFFILIATIONS

- NRECA Associate Member
- MultiSpeak® Initiative
- National Science Foundation (NSF) FREEDM Smart Grid Center
- Clinton Global Initiative
- Global Energy Model (GEM)
- IEEE
- IEC
- CIGRE

Headquarters
12050 North Pecos Street
Suite 210
Denver, Colorado 80234
303.453.8300

Centennial Campus
North Carolina State Offices
Venture IV Building
1730 Varsity Drive
Suite 500
Raleigh, North Carolina 27606
919.836.9916

Durango, Colorado Offices
1150 Main Avenue
Unit C
Durango, Colorado 81301
303.453.8361

info@greenenergycorp.com

For more information please visit **greenenergycorp.com** or call 303-453-8338 to speak to a Green Energy Corp representative.

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