



# Composite Cylinders Advanced

## Type 4 Composite Cylinders –

### Powering the Gas Storage Industry



## Problem

Changes in climate and ecology create new challenges for transport fuel systems. The most efficient option at today's scientific and technological development level mandates the use of hybrid engines. Cylinders with compressed natural gas or compressed hydrogen are used as additional fuel to gasoline, to meet the ecological requirements.

The annual global production of CNG cylinders is around 10m. Of these, about 100,000 are CNG Type 4 composite cylinders, most of which are produced by the monopoly supplier Hexagon.

But the demand is not just in the transport sector. People also use gas, for cooking and heating their homes. There are 70m LPG cylinders produced annually worldwide, of which about 1,500,000 are LPG Type 4 composite cylinders, mainly produced by Time Technoplast and Hexagon only.

The development of Type 4 composite cylinders was a response to the problems of huge weight, unsafe use and corrosion of metallic cylinders caused by hydrogen and hydrocarbons. However, the current generation of Type 4 cylinders on the market today have three main shortfalls: they are **expensive compared to metallic counterparts**, they have **high level of gas permeability and limited temperature range of operation**.

## Solution

The innovative technological production of Type 4 composite cylinders by CCA enables the elimination of present design shortfalls.

Our technological expertise has created unique newly-formulated polymers for cylinder production, achieving a new level of resistance to gas permeability in accordance with ISO 11119-3. Furthermore our innovations have enabled us to double the temperature limits of operation.

Our bespoke production process allows us to radically reduce the cost of Type 4 composite cylinders, **to potentially halve the costs** paid for analogues produced by Hexagon and Time Technoplast.

Because safety concerns and compliance with international standards has informed our development plan throughout, we are confident that that CCA Type 4 composite cylinders will receive US and EU permission for in-house usage, greatly increasing potential market share.

To make the cylinder prototype we raise funds using an ICO and sell CCA tokens on an ERC20 platform. This will enable us to attract decentralized investments in the project, and to radically disrupt the multi-billion dollar gas storage industry. Thus, CCA Token holders will receive significant benefits selling CCA tokens back to us in line with the buyback program.

## Primare Features of CCA



**Low production cost** of composite cylinders compared to existing analogues, to halve the costs paid for analogues.



**Low gas permeability** in accordance with ISO 11119-3. CCA Type 4 composite cylinders will receive US and EU permission for in-house usage.



**Lighter weight.** CCA Type 4 composite cylinders will be up to 4 times lighter than metallic ones.



**Non-shattering destruction in a gas explosion.** There are no damaging elements appear in a gas explosion of CCA Type 4 composite cylinders.



**Minimal maintenance costs.** Visual control of the cylinder condition and gas level.



**Corrosion free.** Type 4 composite cylinders are corrosion free to hydrogen and hydrocarbons.



## Token Sale

<b>Total Supply</b>	<b>Token Price</b>	<b>Token Ticker</b>
100,000,000	1,000 CCA = 75 USD	CCA

**Token Usage:** Investor reward, Buyback & Burn

### Presale

Jan 15, 2018 – Mar 15, 2018

### Tokens to sell:

20,000,000 CCA

### Nominal price:

50 USD

### Bonus program:

50%, 35%, 15%

for early contributors

### Token Sale

TBA: 2H2018

### Tokens to sell:

60,000,000 CCA

### Nominal price:

75 USD

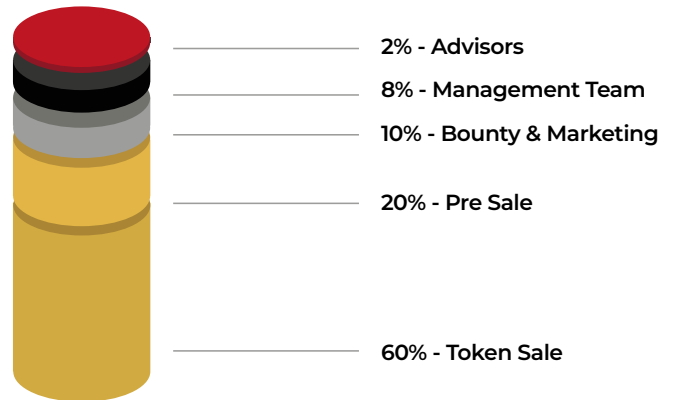
### Bonus program:

20%, 15%, 10%, 5%

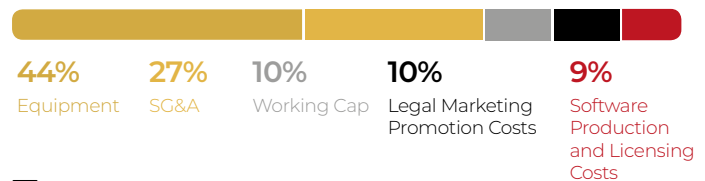
for early contributors

Extra 5% bonus for referral purchases

\* All tokens that will not be sold during the pre-sale and the token sale will be burned



## Structure of Expenses



## Team

The combined industry experience of the team in the development and production of high-tech solutions and Type 4 composite cylinders, is more than 200 years:



**Khanif Makhyanov**  
Chair, Board of Directors  
Experience, 40 years.  
Setting up of composite cylinders production plant



**Timur Akhyarov**  
CEO  
Experience 12 years  
Strategic management, investment and finance



**Nikolay Leontyev**  
Chief of Production  
Experience 15 years  
Development of new design-engineering solutions in the field of composite materials



**Alexander Leontyev**  
Chief Process Engineer  
Experience 40 years  
Development of flexible production systems



**Victor Goryachev**  
Chief Designer  
Experience 30 years  
Development and production of scientific solutions



**Aynur Motigullin**  
Engineer  
Experience 3 years  
Technical analysis